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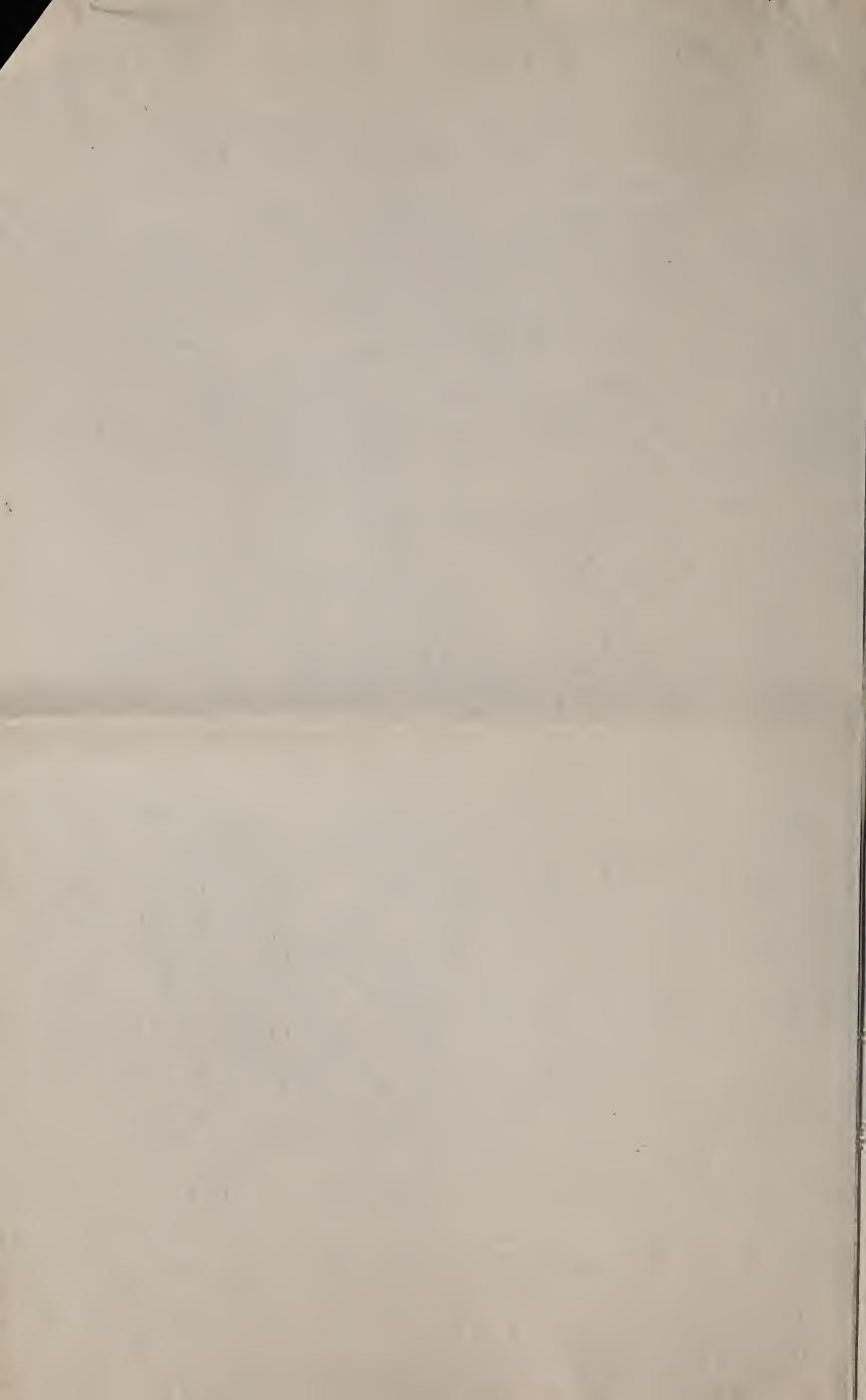
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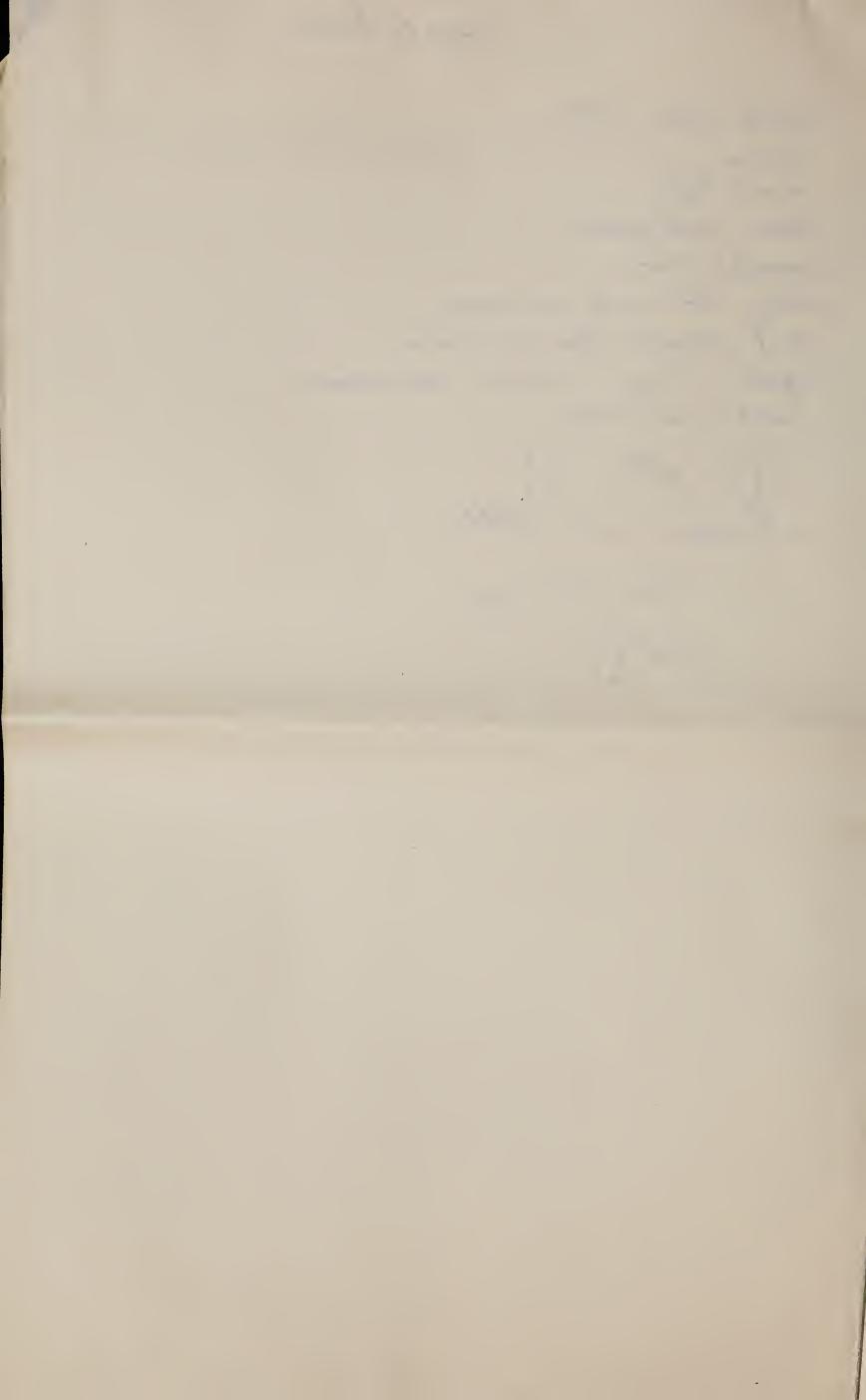
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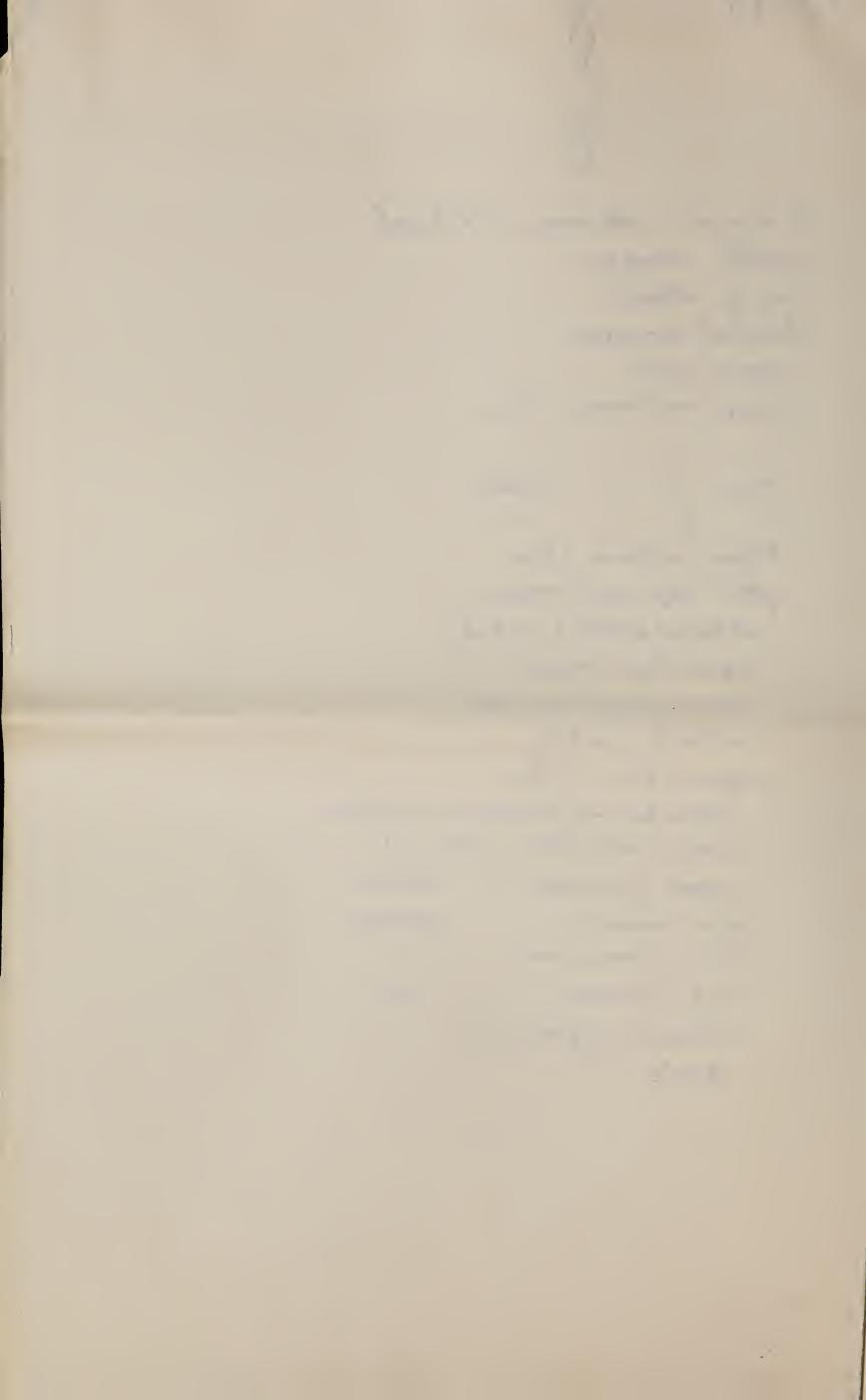
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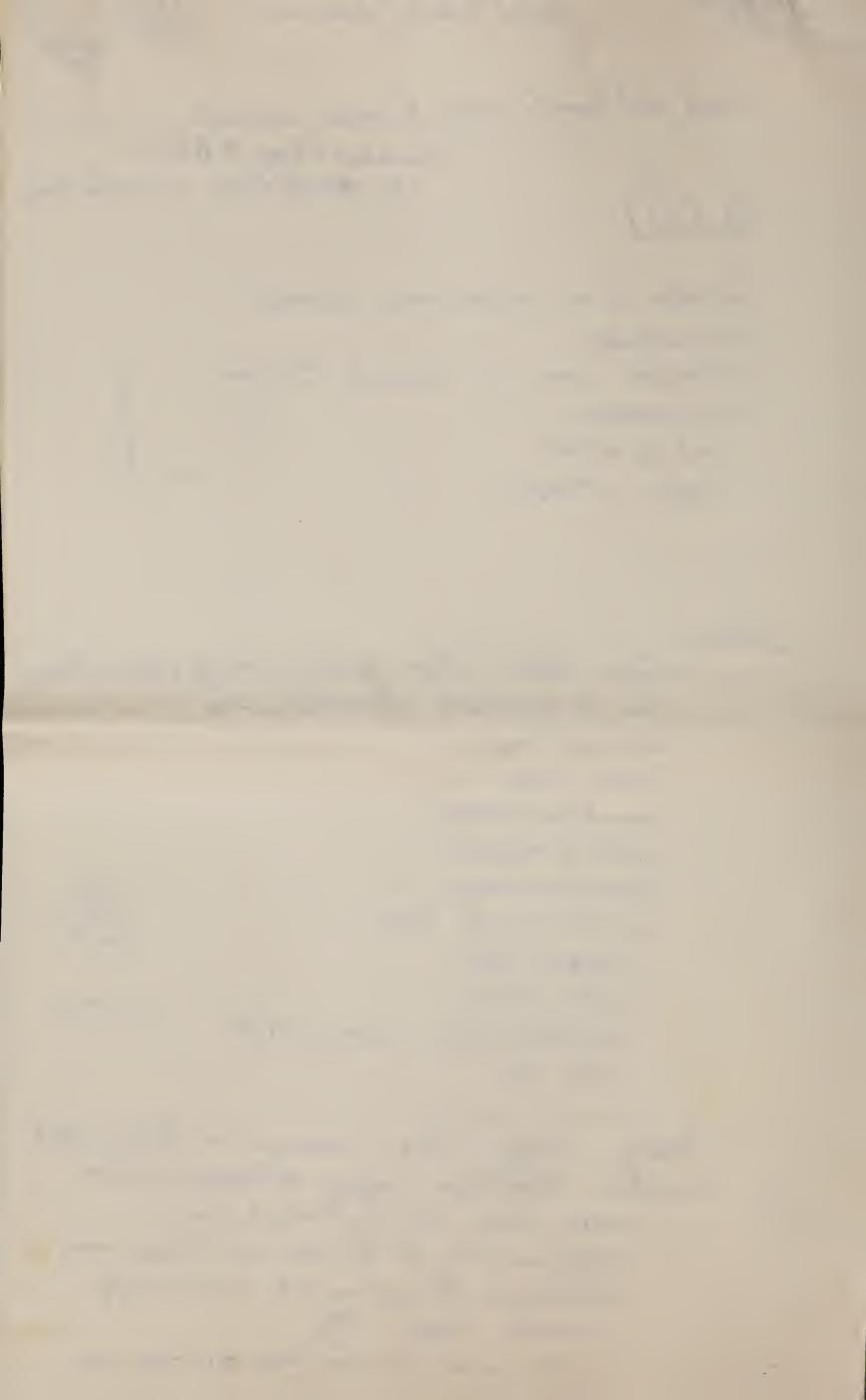
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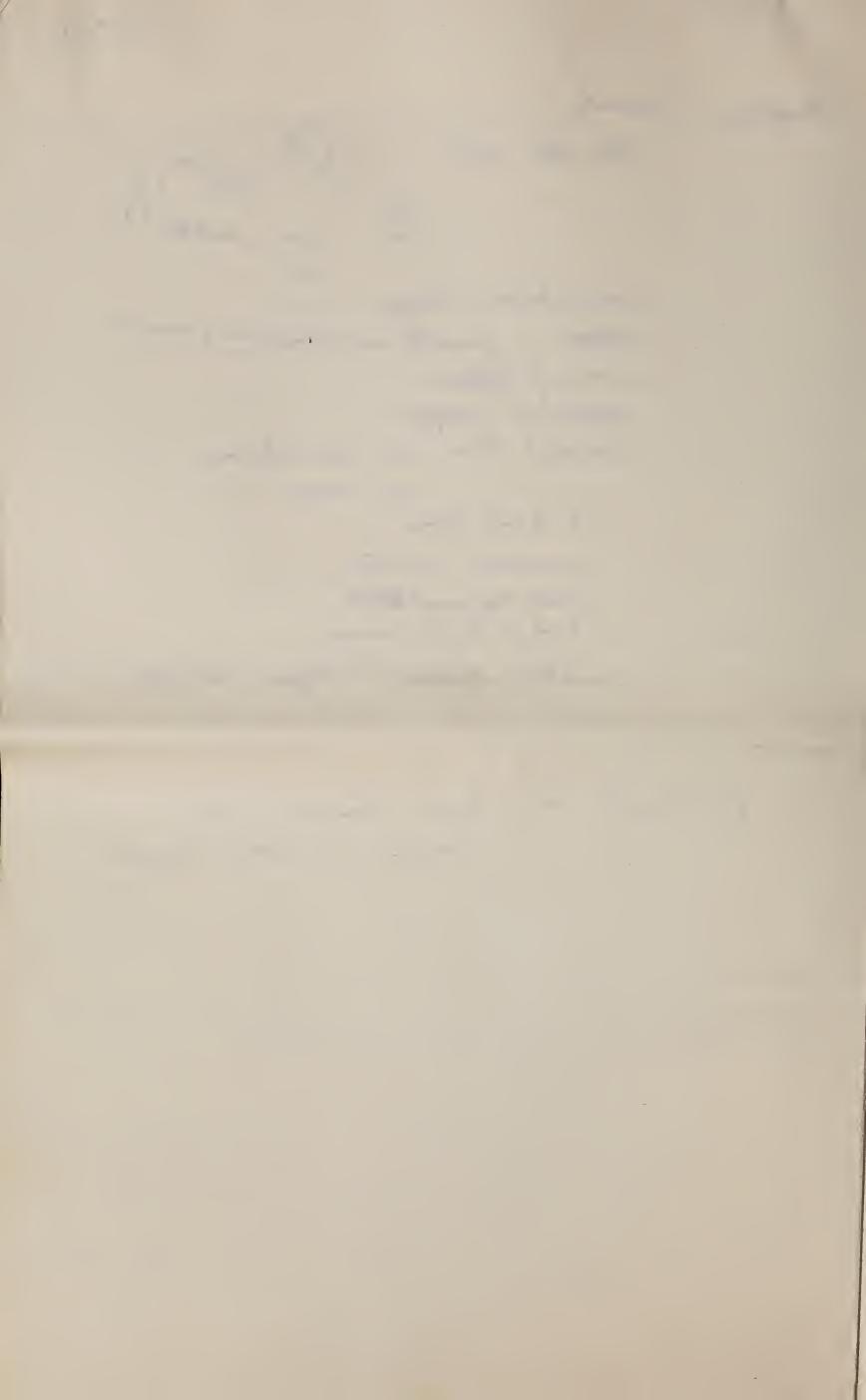
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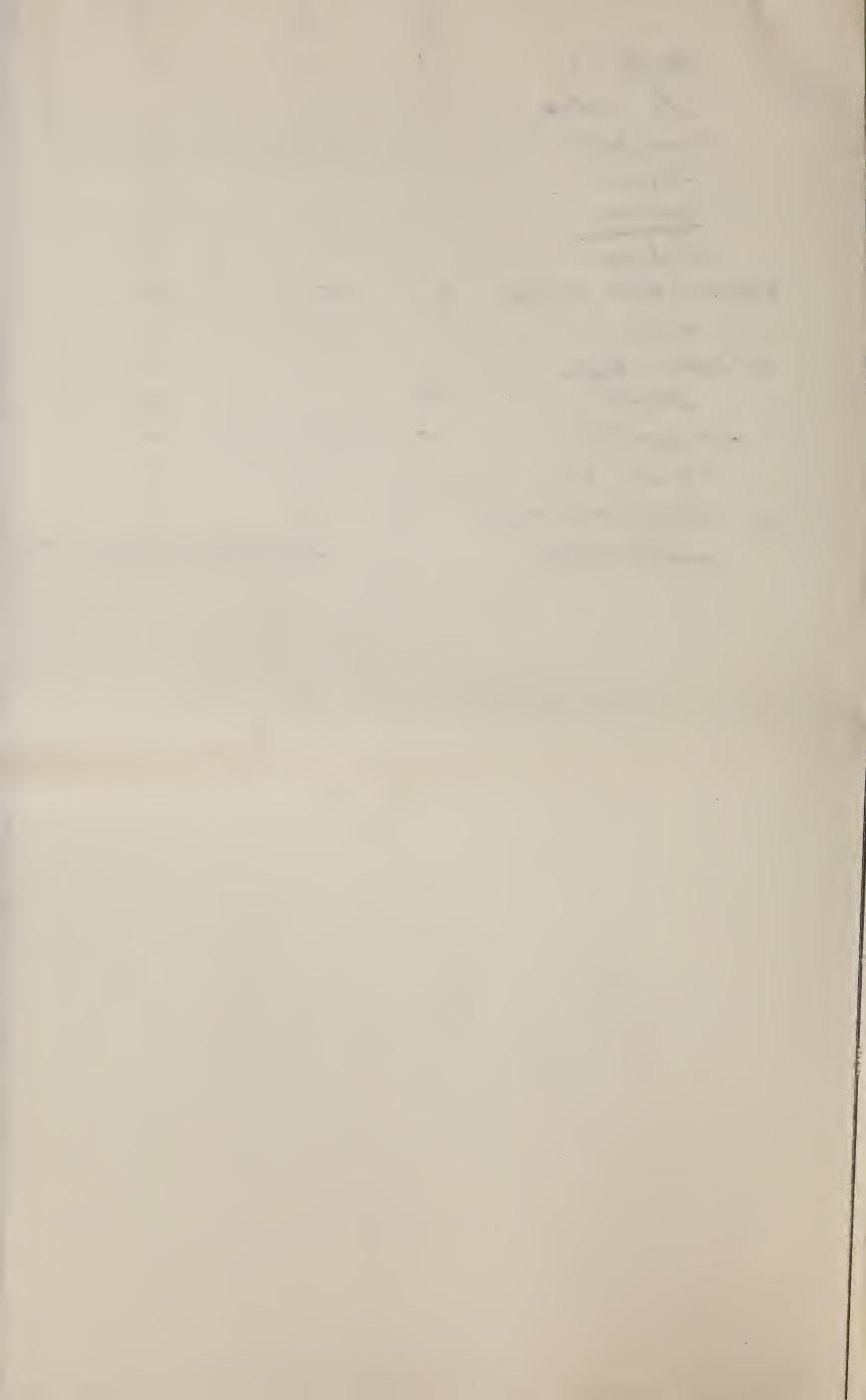
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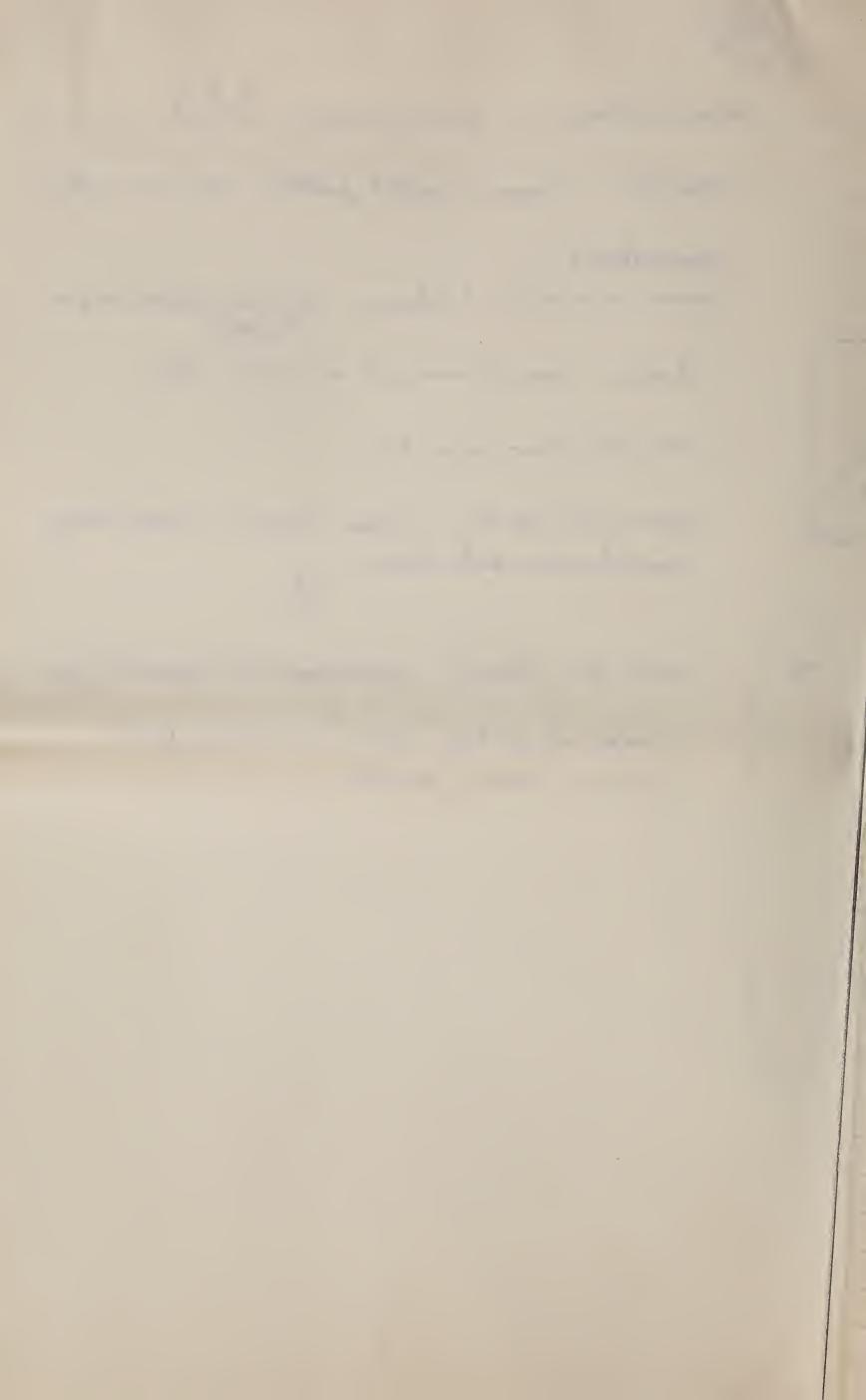
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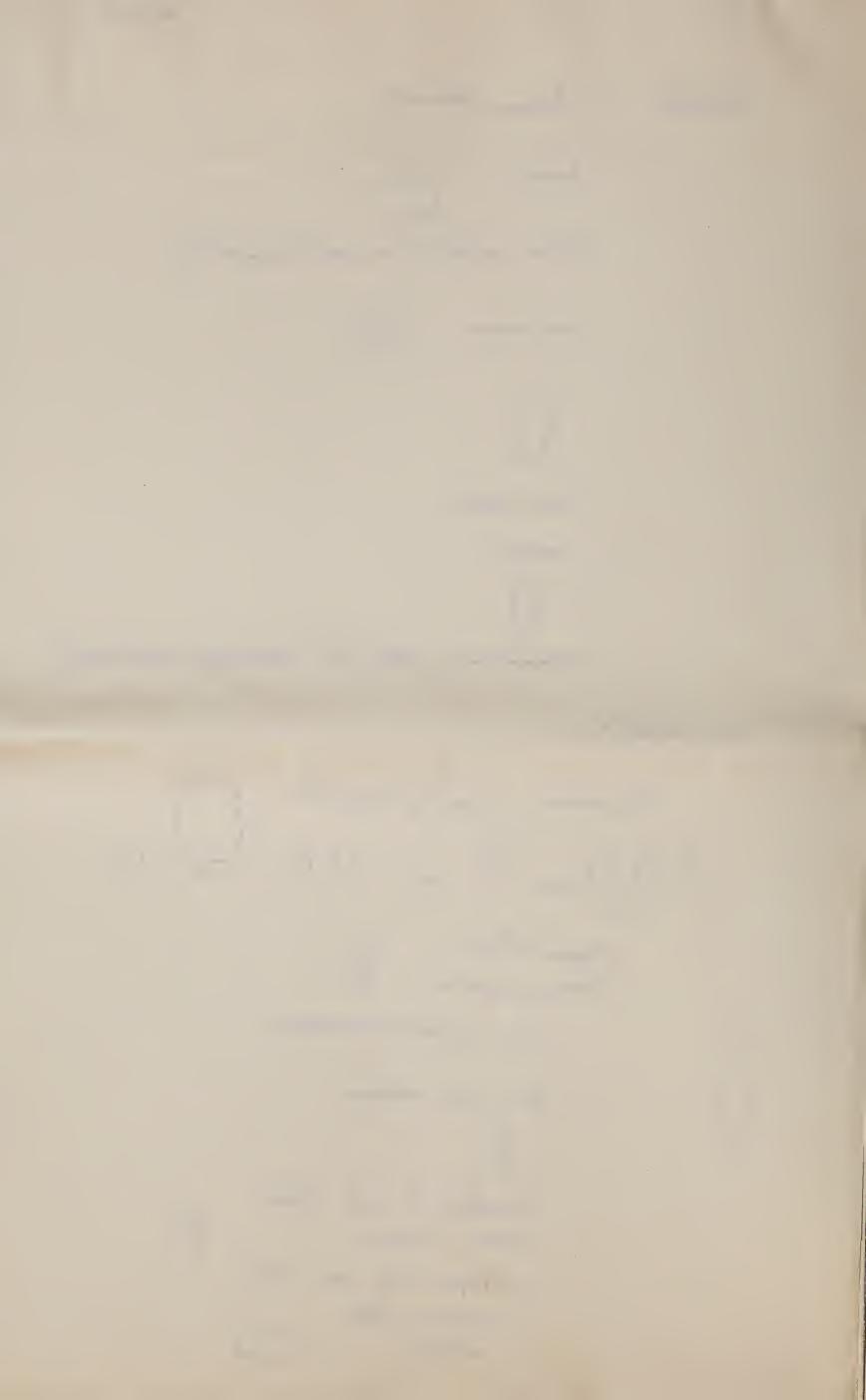
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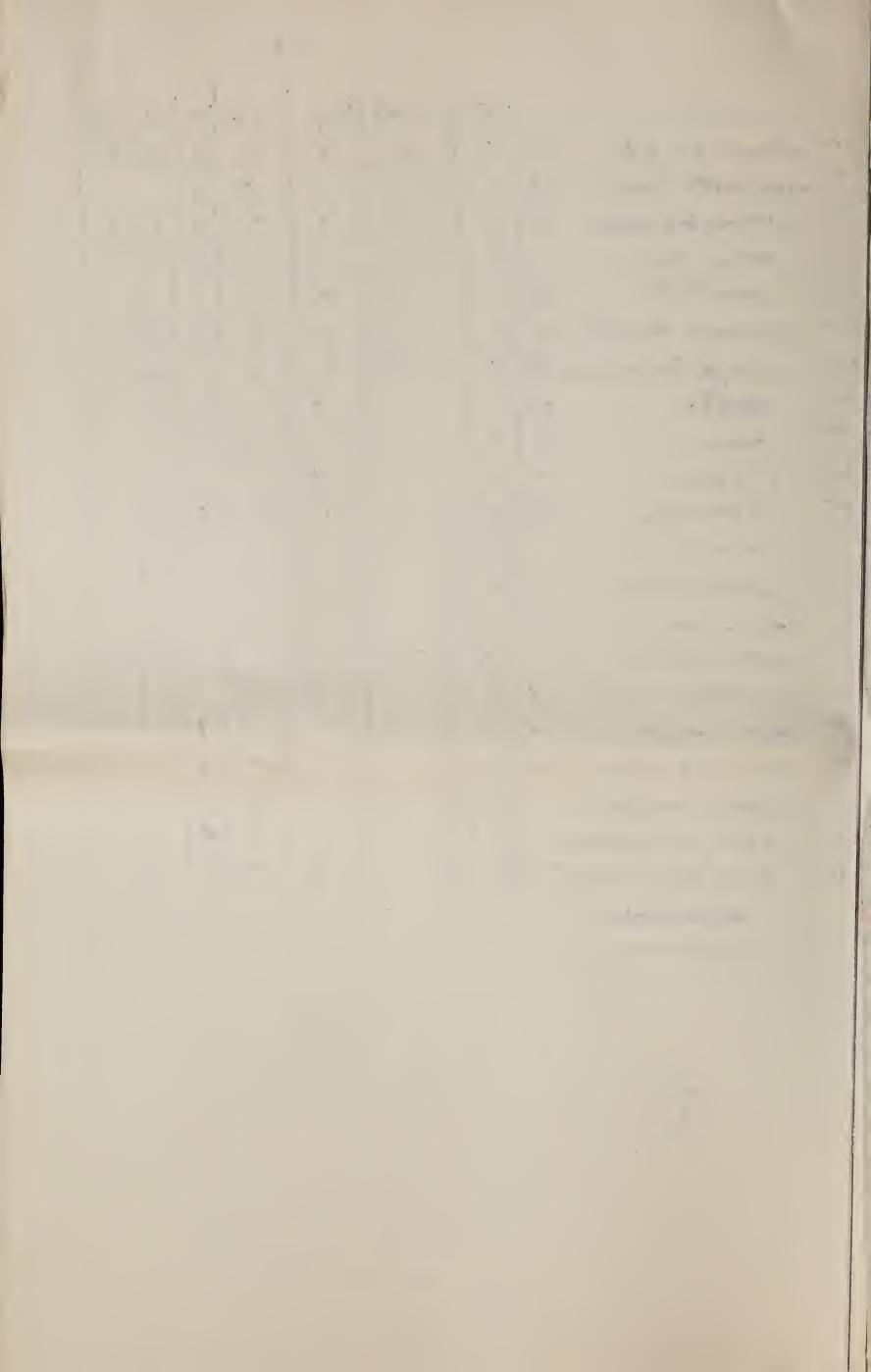
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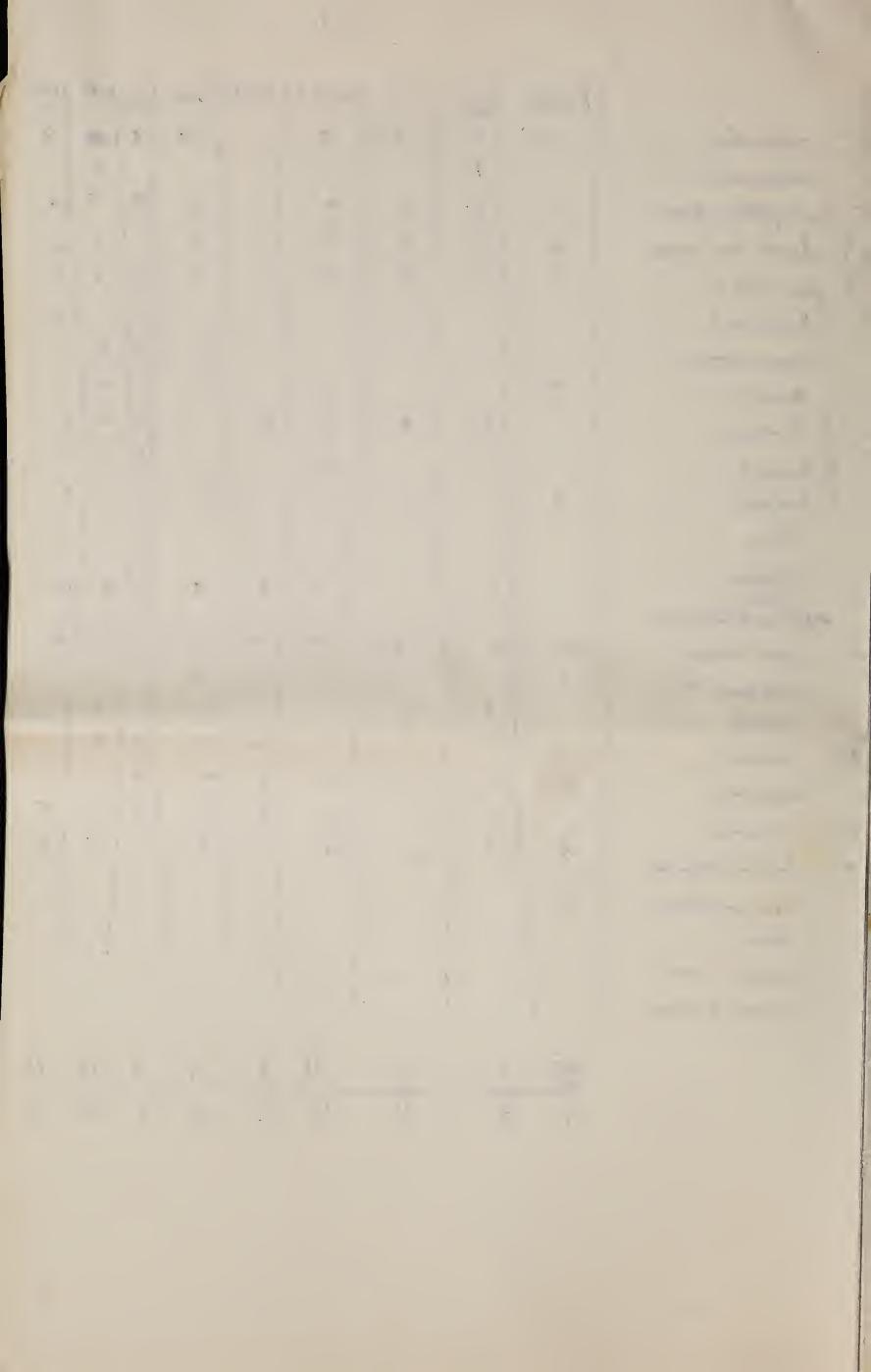


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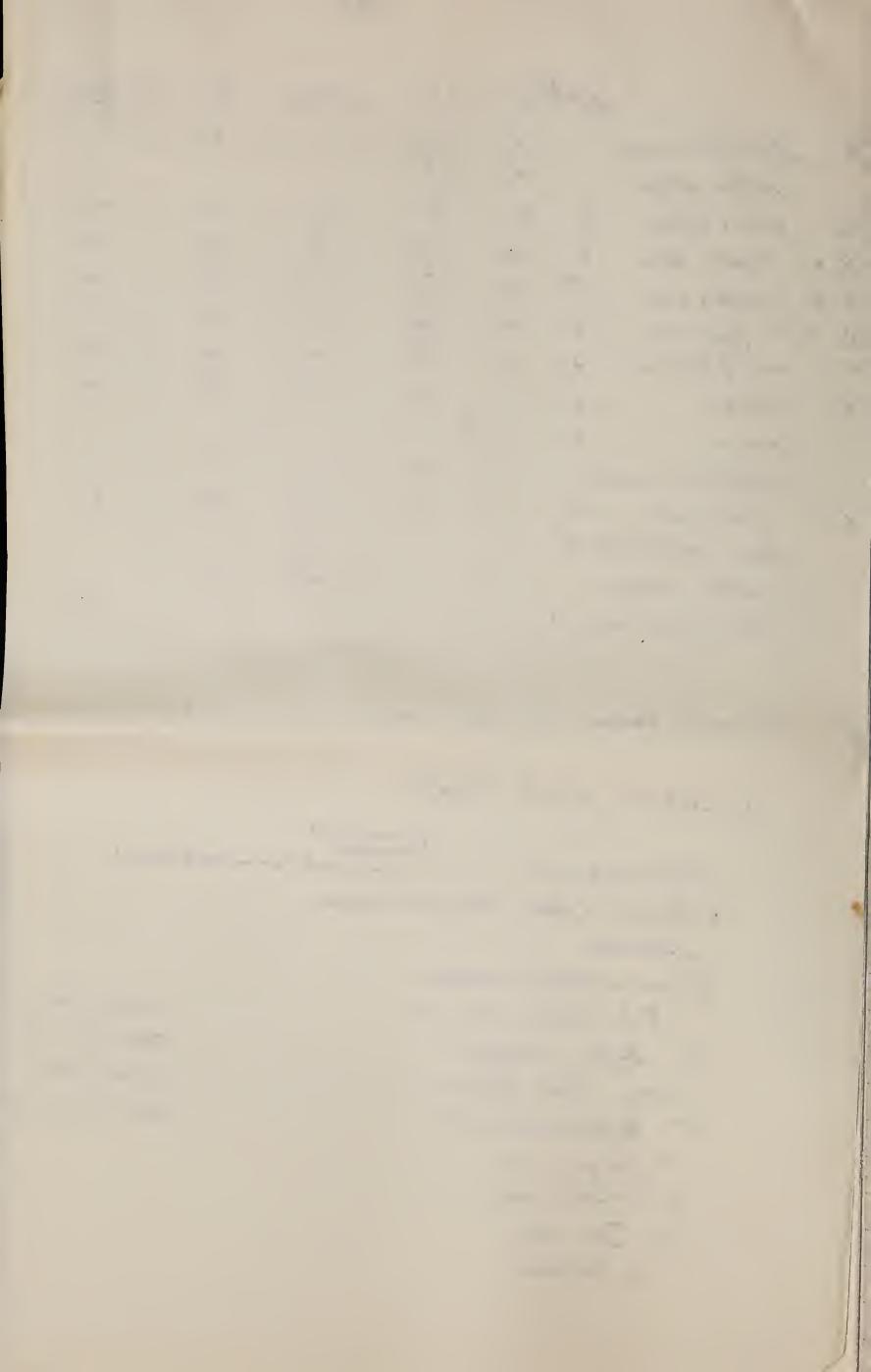
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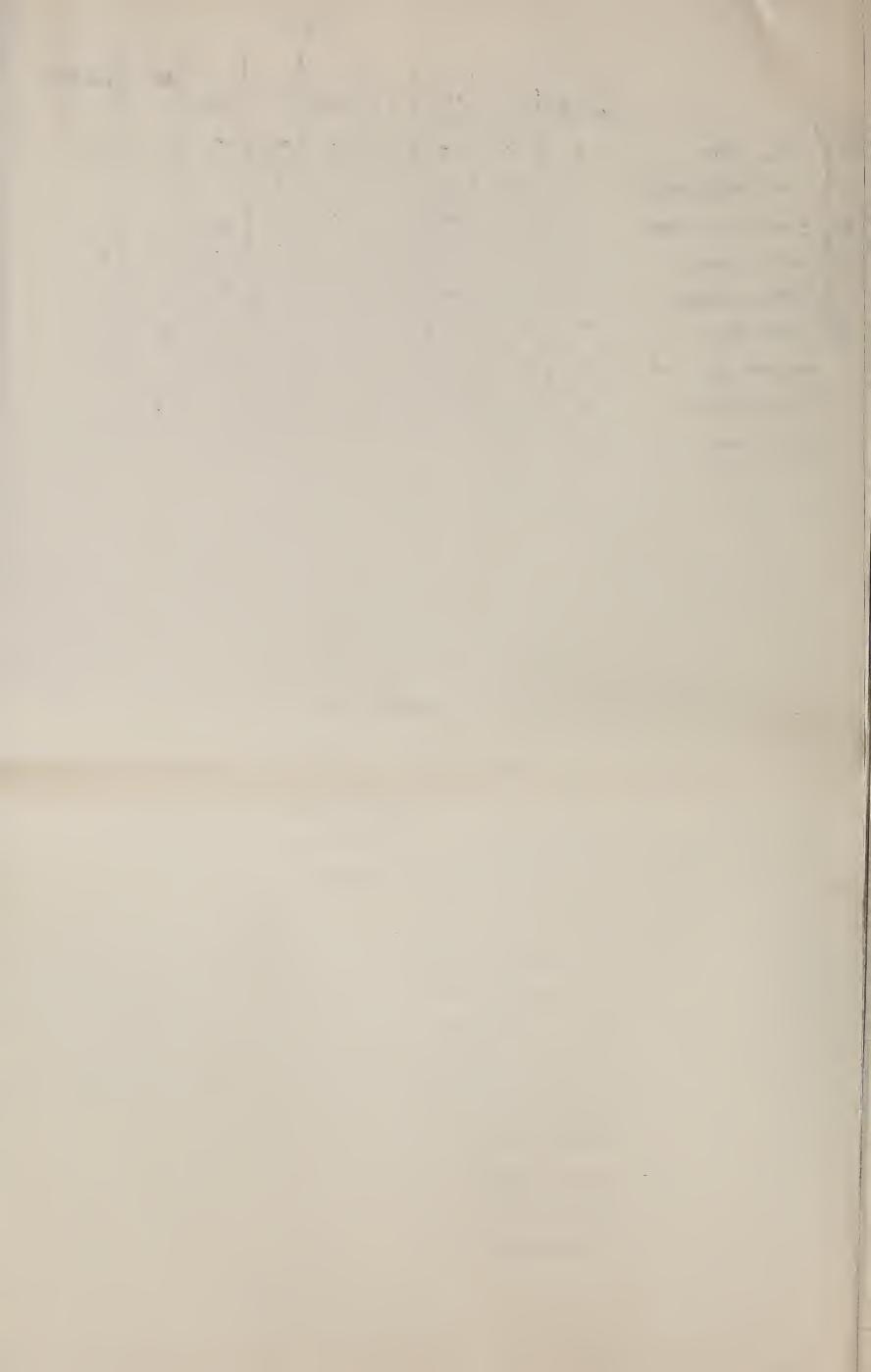
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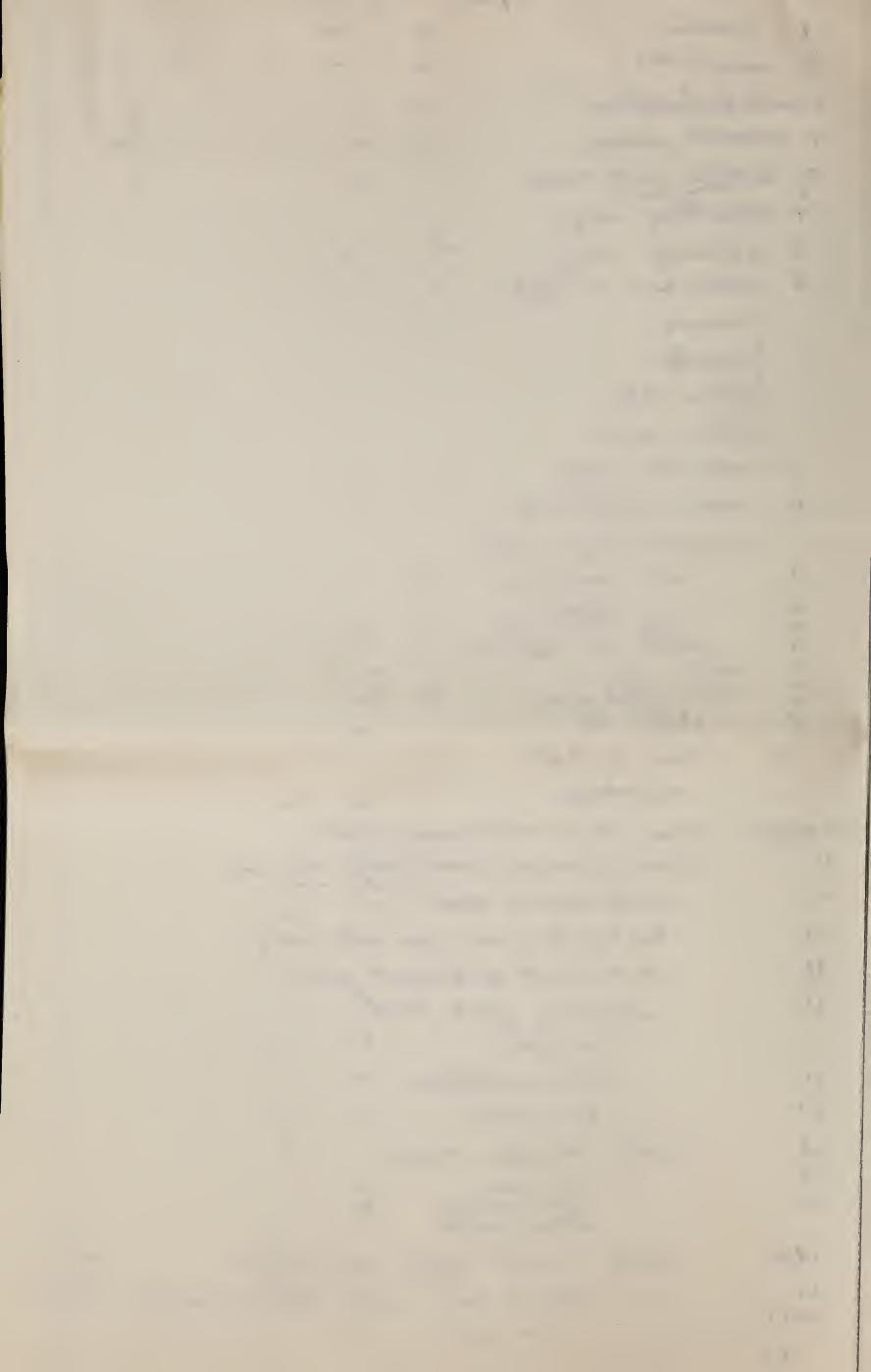
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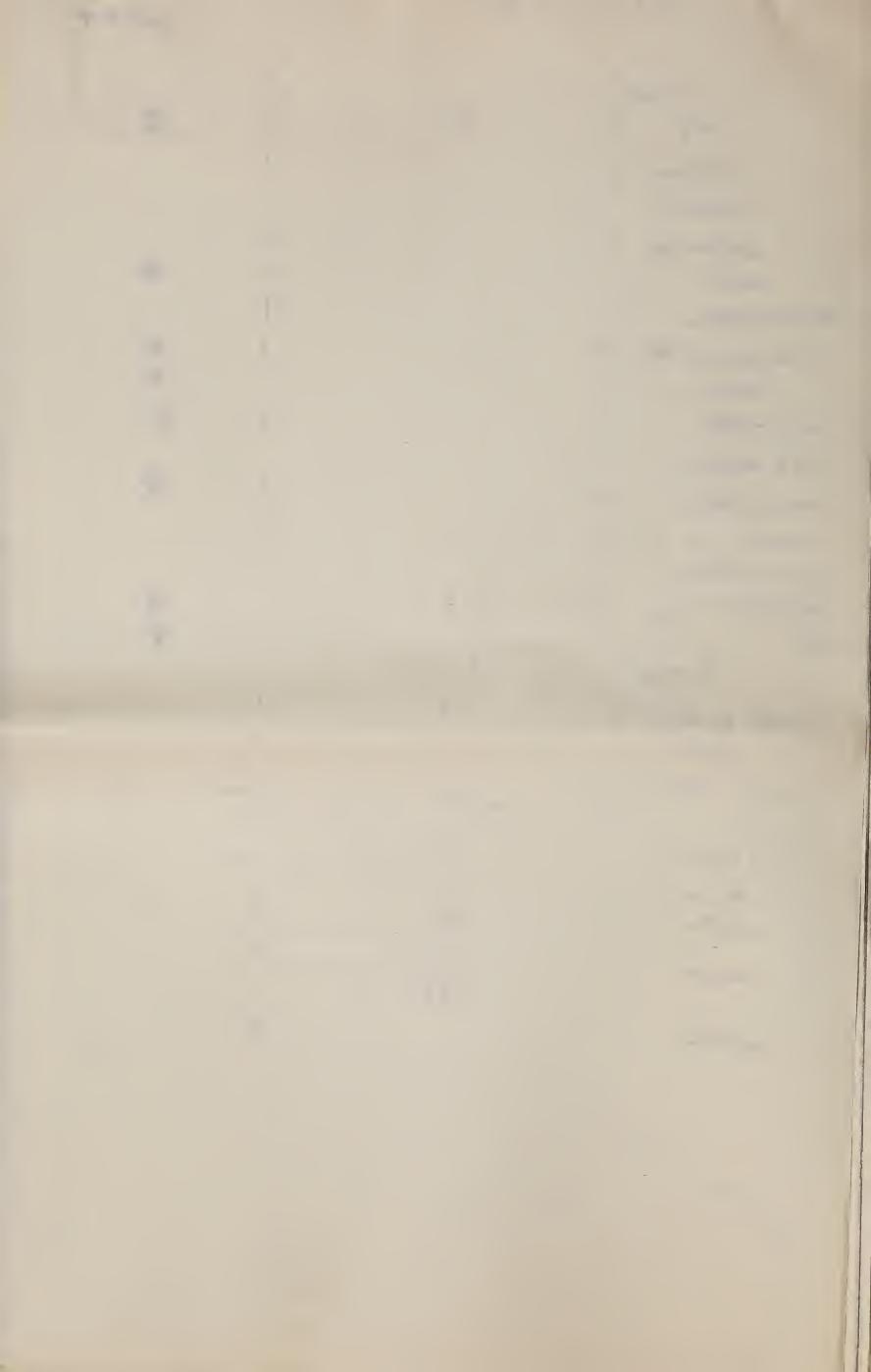
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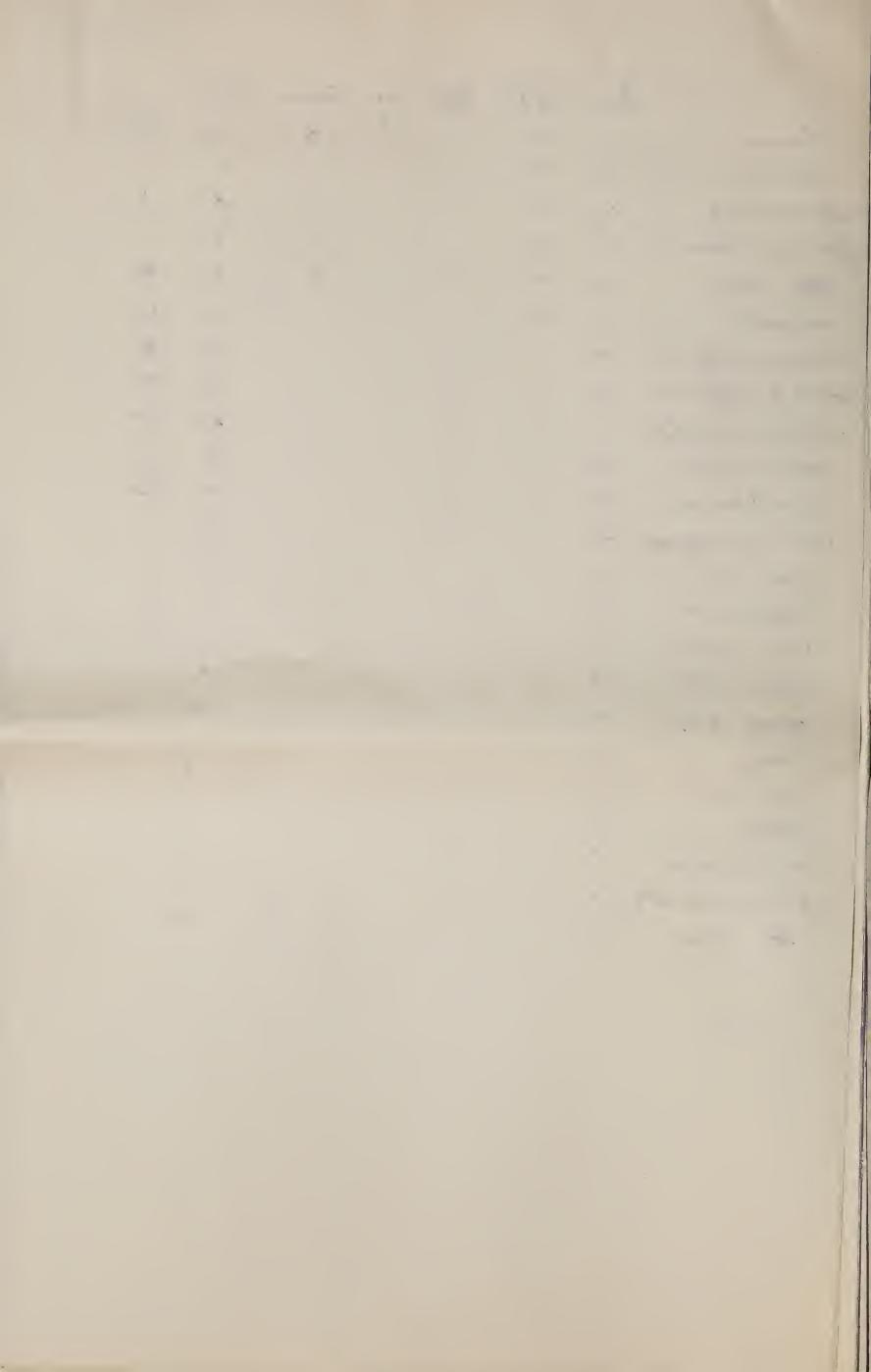
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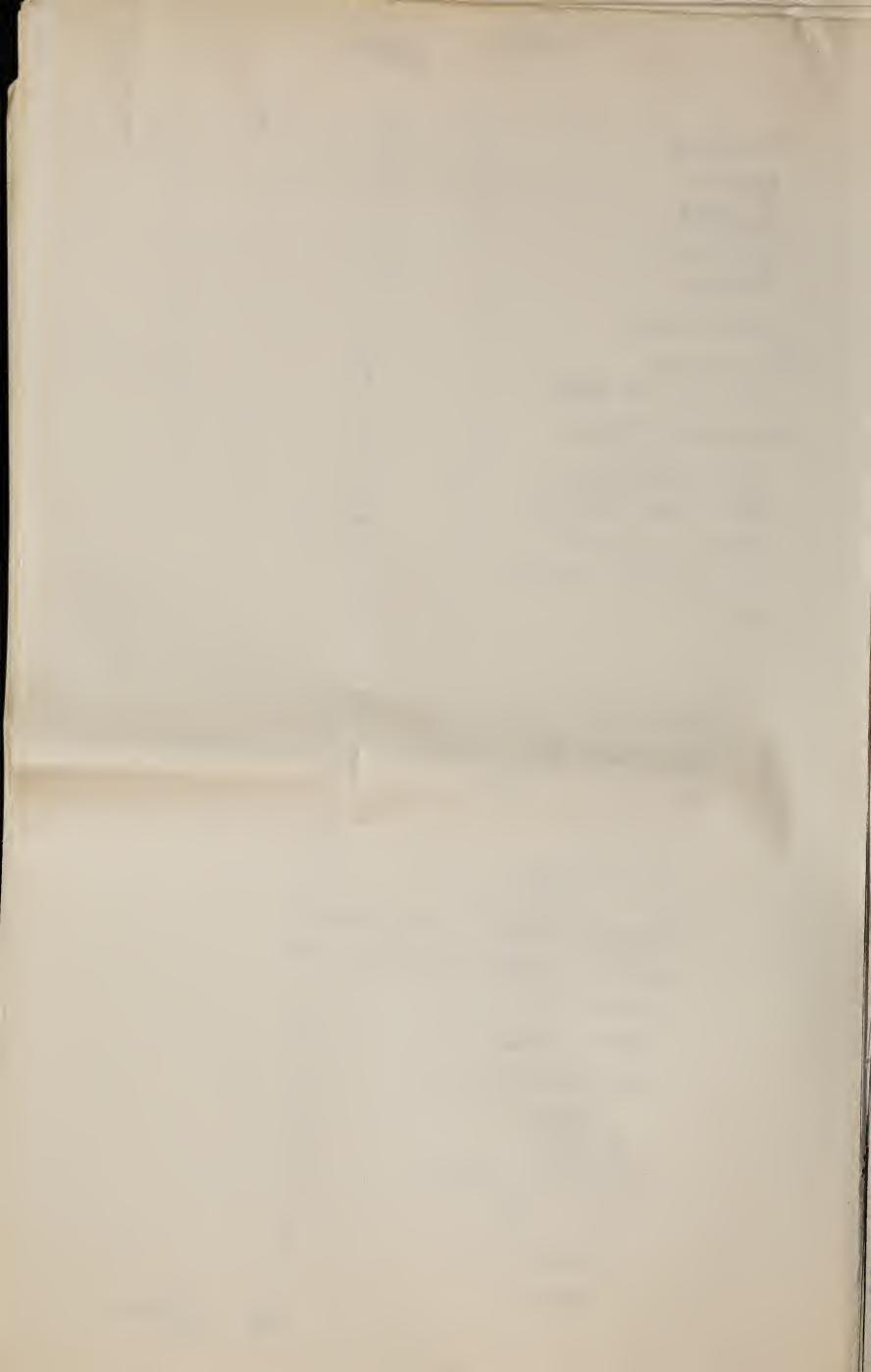
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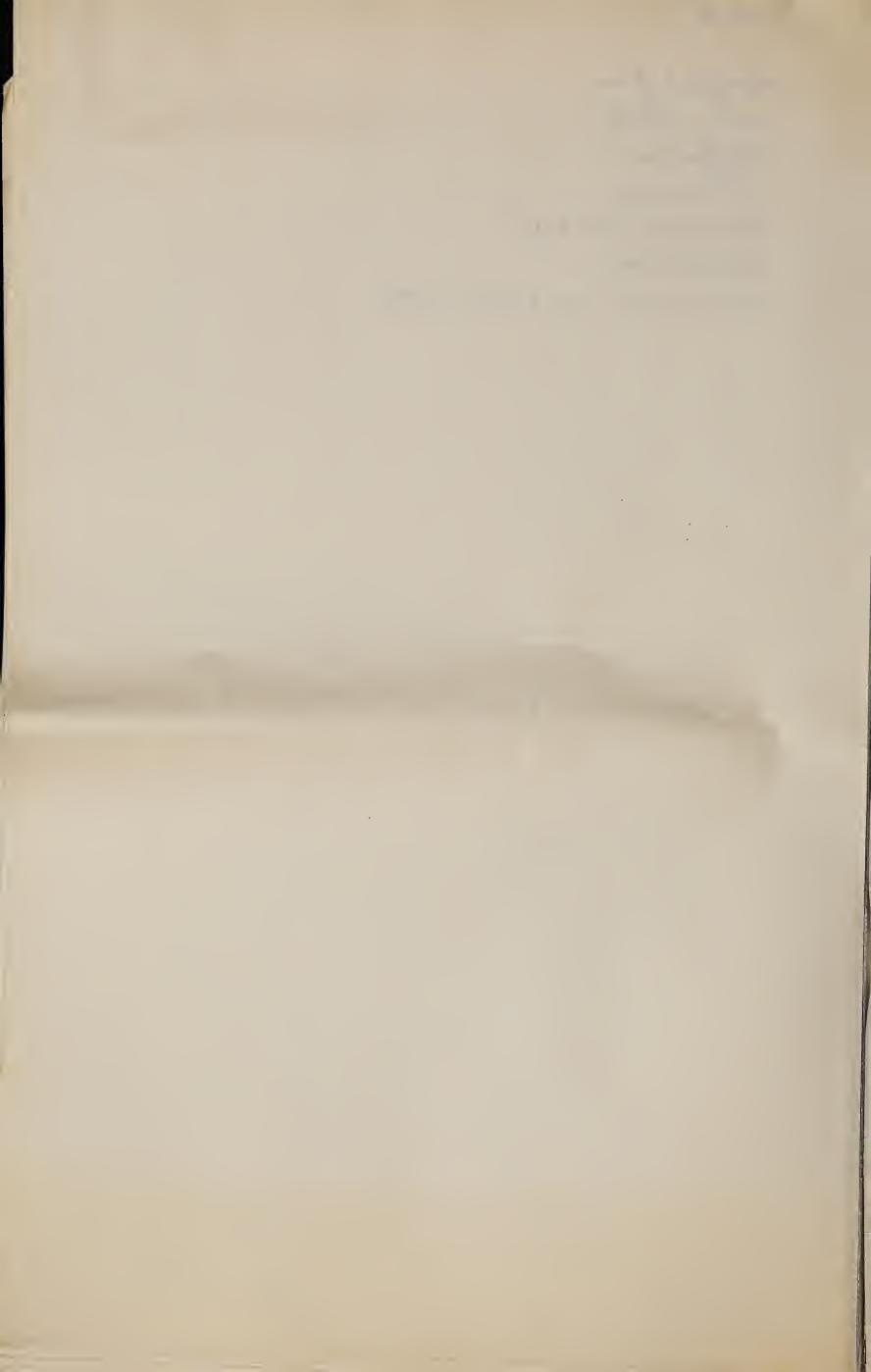
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Since Frederica de Laguna suggested that the so called "boot creasers" of the Dorset culture, well known too from O. Solberg's description of the "Stone Age" in West Greenland (Solberg 1907) "would correspond in function to the chipped stone "burins" or gravers 2) of the Upper Palaeolithic of Europe" (Laguna 1946, p. 139) it has become obvious that real burins and related implements occur in different levels of the Eskimo culture from Alaska to Greenland.

The most important step on the way for recognition of the Eskimo burin was made when JL. Giddings in 1948 discovered the Denbigh Flint Complex and described burins and burin spalls as typical elements of this culture (Giddings 1949, 1951, 1956). The question was further discussed by J. Meldgaard (1952), H. B. Collins (1953) and W. Irving (1955). More and more sites were published where the flint material included burins and related artifacts, from interior Alaska (Solecki and Hackmann 1951; Irving 1951, 1953; Campbell 1959), from Arctic Canada (Meldgaard 1952, 1955; MacNeish 1954, 1956; Collins 1955/ 1956; Harp 1958; Lowther 1960) and from Greenland (Knuth 1952, 1954, 1958; Larsen and Melgaard 1958; Mathiassen 1958).

It has been stated by different authors that the burin in the Eskimo area is similar to the Eurasiatic burin of Upper Palaeolithic and Mesolithic Age. However, Collins distinguishes between "genuine burins and others with rubbed edges, which may have functioned as burins but were made differently" (Collins 1953, p.36). Concerning the true burins, he emphasizes that "the upper end has been chipped to a rather thin knife-like edge, so that in use the blade would have been moved back and forth in the plane of its width, and not transversely like European burin"; and he further says that "the American burins also differ from Palaeolithic examples in being more carefully shaped and more extensively chipped on the surface". Meldgaard in discussing the Sarqaq burins, collected by Hans Mosegaard, mentions that "a single burin can ... be described as an 'ordinary' or chisel burin'. The other burins of the Sarqaq culture have an "oblique, sharp or rounded front edge" from which "one or more 'burin-blows' are struck" (Meldgaard 1952, p.223). Irving points out, that the burins n in certain instances, and particularly at the Alaskan sites, are accompanied by other implements typologically similar to Old World Palaeolithic and Mesolithis forms; elsewhere, they are found in complexes that may be more distinctively American (Irving 1955, p. 380).

As the term "burin" becomes more and more general in the publications on early Eskimo cultures, I think it is necessary to fix what is actually meant. It can be seen from the above mentioned observations about Eskimo burins, that Collins and Meldgaard distinguish different kinds of burins and burin-like implements; they have also noted that there are certain differences from the Eurasiatic burin.

* * *

It may be useful to reconsider the definition of the Upper Palaeolithic and Mesolithic burin in the Old World. 4) Based on a formulation recently proposed by F. Felgenhauer (1962), I would describe it as follows: The burin is a stone implement with a chisel-shaped cutting edge (German: Stichel-kante) which always runs in a right angle to the plane of the implement. This cutting edge is formed by the meeting of two rather narrow facets. At least one of these facets must be formed by one or several "burin-blows". If the other facet is not made in the same way, it may be formed be retouches, fracture or be unworked.

We therefore have central-burins, left-angle-burins and right-angle-burins which all may be formed by blows on both sides or by blows on one side and retouches on the other. On the angle-burins only one of the facets may be formed by the breaking of a blade or flake before this has been transformed into a burin by striking off one or several spalls on one side (Fig. 1).

One often reads that burins have been resharpened after having been used sufficiently long so that the cutting edge had become dulled. This may have happened occasionally but I think that not infrequently during the initial preparation of a burin several spalls must have been struck off. The reason is probably that in many cases the first blows from the thin end of a blade produced only a point or a very narrow cutting edge (Fig. 2). The following blows resulted in forming the needed cutting edge of some milimetres thickness (Fig. 3).

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In this connection we have to note that most of the burin spalls found in Upper Palaeolithic or Mesolithic cultures in Europe have a very typical form. The cross-section of their upper part differs from that of their lower part (Fig. 4). If the edge of the blade or flake from which the spall has been struck off was already retouched, we find some of these retouches on the lower part of the spalls (Fig. 5). Sometimes these spalls may have been retouched and used secondarily though this has never been proven by a detailed study.

It has to be mentioned that the burins of Upper Palaeolithic cultures are usually larger and better worked than those of Mesolithic cultures. Most of the latter are rather small and less skillfully made. As worked pieces of bone and antler show, both have in general been used to cut long grooves in these organic materials by moving the implement forth and back transversally to its width, which means in the direction of the chisel-shaped cutting edge. The main purpose of this use must have been the securing of strips of bone or antler for the fabrication of such implements as needles, arrowheads, etc. (Clark 1953). Burins very likely have also served for engraving purposes, especially those with a narrow cutting edge for drawing figures and ornaments on organic material, eventually also for carving purposes.

There is no need to treat here the rare forms of burins: polyhedral burins, prismatic burins, double-or multi-burins, burins combined with scrapers or other implements, etc. Nor is it necessary to describe the different subtypes of central and angle burins.

One point has still to be mentioned: the so called Mesolithic "micro-burin" in Eurasia is very likely not a true small implement but simply a by product from the fracturing of blades for the fabrication of geometrical microliths (triangles, trapezes) (5) (Fig. 6).

* * *

There abviously are burins from the Eskimo area which correspond to the definition of Eurasiatic burins. We may mention some examples from the Iyatayet site at Cape Denbigh (Giddings 1951, Fig. 59a, No. 1-4). Their cutting edge has been produced by striking two or more blows off. There is no indication of a surface retouch (at least not for the surfaces shown in the illustration). By their rather small size they recall mostly Mesolithic burins. We may call them "ordinary burins" (Fig. 7).

A second category of burins from the Eskimo territory still have the typical cutting edge. But they are separated from the first category of burins by the fact that they have accomplete or partial surface retouch on one or both of their surfaces. Some have been published by Meldgaard from Sarqaq and Disko Bay (1952, Fig. 78, nos 2,9,10). There would be no problem to use these artifacts like an ordinary burin. It is difficult to understand why these artifacts were retouched before the spall was struck off; the only reason I can see is that this should facilitate the hafting.* We may oall these burins "retouched burins" (Fig. 8) * I don't think that they have often

been made from other implements formerly used for a different purpose. Furthermore, there is a group of implements which in the field of Eskimo archaeology are also called "burins". Their form can be seen on a schematic drawing published by J.L. Giddings (1956, Fig. 1). Its basis is a well prepared blade (Gidding's example shows only large retouches on all the edges, but often this type bears surface retouches on one or both sides), from which several spalls have been struck off. This did not produce a chiselshaped cutting edge, but a kind of point on the outermost part of the wedge shaped front edge, the latter having been primarily sharpened by the mentioned retouches. Solecki and Hackman even think that "these artifacts were originally side and end scrapers, showing attritional wear on one or more edge sides" (Solecki and Hackman 1951 p. 88). This is the reason why H. B. Collins pointed out that in use such blades "would have been moved back and forth in the plane of its width" though he ranges them together with the true burins (1953, p. 36). I propose to call them "pseudo burins" (Fig. 9).

These artifacts, which thus differ in a very distinctive feature from the Eurasiatic burin, may have been made for the same purposes as real burins. But there is some indication: that they may have had other functions.

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First, mention may be made of the small pseudo-burins from which so many spalls have been struck off that the remaining part of the front edge is very narrow and sometimes quite oblique (Collins 1953, Fig. 3 k-p). The use as a "plane burin" is therefore rather improbable (Fig. 10).

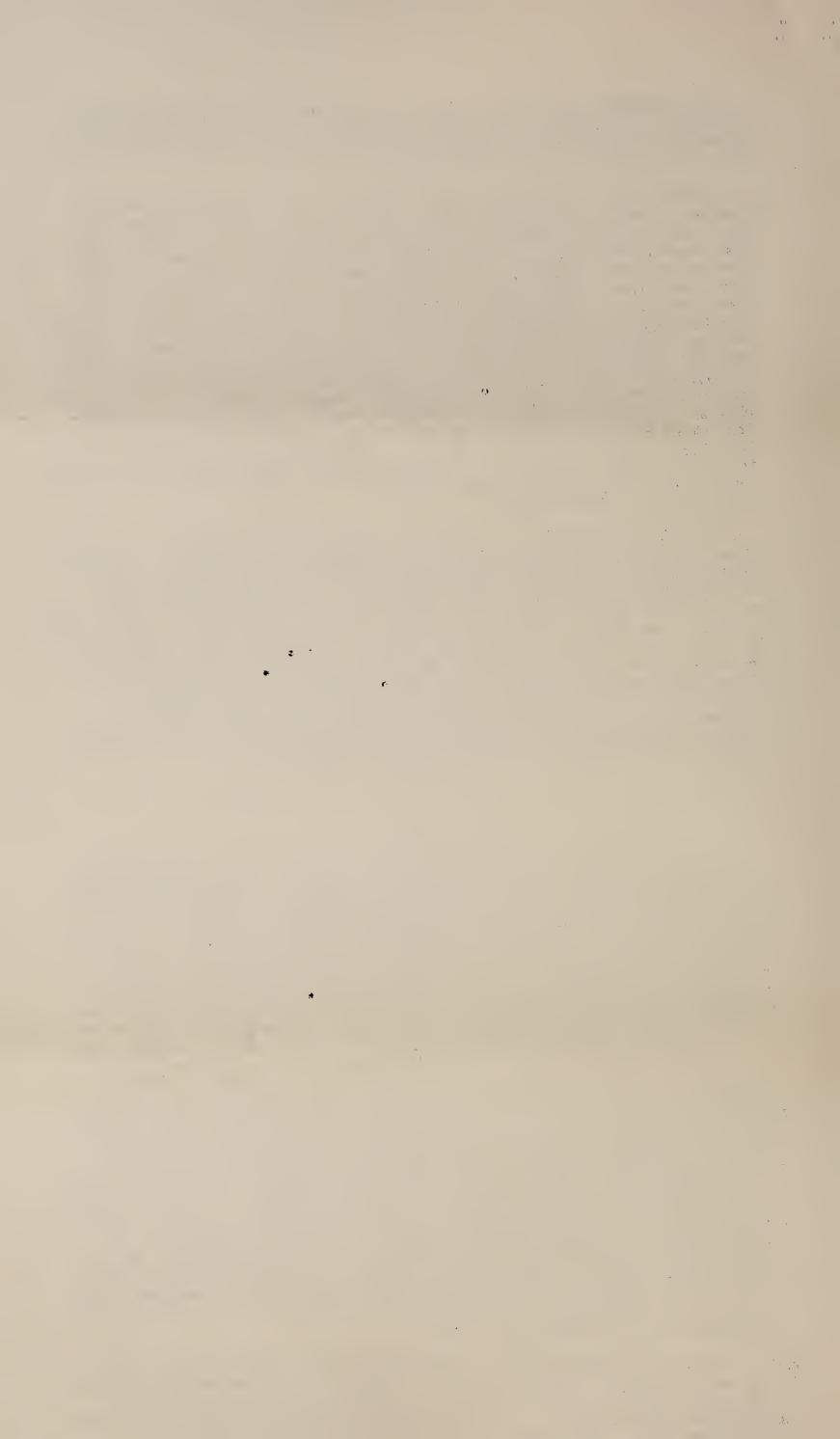
Secondly, there is the fact that the spalls of this type have a special importance as J.L. Giddings has shown (1956). They are four-sided and their upper edge bears the traces of the retouching on the blades from which they have been struck off 6). It is certainly strange, that a sharpened edge was used as striking platform. On the distal end of most of these spalls a very fine retouch can be seen (Fig. 11). Giddings points out that "there is no doubt that the retouched areas result from use or from some shearing process, as in pressing the working edge against bone or antler (Giddings 1956, p. 234). Giddings suggests that these spalls could have been shafted engravers, though besides a few antler objects from Cave 2 at Trail Creek (Larsen 1951, p. 74) which might be related to the Denbigh Flint Complex (Larsen and Meldgaard 1958, p. 69), we don't know much about carving and engraving technique of this early culture. He also says that "even though the burin of the Denbigh Flint Complex was probably used primarily for grooving, it must have been regarded by its makers in many cases as a core for the production of excellent burin spalls 12 (Giddings 1956, p. 236). 7) I therefore suggest that it would be more accurate to call these spalls "pseudo burin spalls" or, if a secondary use as a burin can be proven, "spall-burins".

Finally, we must mention a category of implements from Greenland and Arctic Canada originally named "boot creasers" or "drill points", which in the recent literature are called "three-sided drill points" (Meldgaard 1952, p. 228 s.), or "burin-like implements" (Collins 1950, p.25; Larsen and Meldgaard 1958, pp. 17, 61). Collins suggests that "they are specialized forms of burins, later probably than the true burins, but used in the same general way" (Collins 1953, p. 39). These implements again show a surface retouch but their working end is mostly three sided and ground. The wedge -shaped front edge, different from a real burin but similar to the pseude-burin, runs in the plane of the width of the artifact (Fig. 12). Larsen suggests that these burin-like implements were not used as "boot creasers" 8) but for cutting grooves in antlers, ivory and bone. He thinks that they may represent a later development of the true burin (Larsen and Meldgaard 1958, p. 61).

* * *

It seems to me that the appearance of the different burins, pseudo-burins and burin-like artifacts in the Eskimo area might have some chronological and chorological meaning. I don't think that the ordinary burin and the retouched burin belong to different levels of the American Arctic, because both these types are present in early Mesolithic cultures of the Old World: for instance on Hokkaido at Shirataki Locality 33 (Sugihara & Tozawa 1960, p. 18). But I should not be surprised if in the oldest groups of the "Arctic Small Tool Tradition (Irving 1957, p. 47) the ordinary and retouched burins should be predominant whereas the importance of the pseudo-buring and consequently also of the spall-burin would have increased during the subsequent development of this group of early cultures. The fact that the Campus Site at College in Central Alaska (Rainey 1939) with its wedge-shaped (also boat-shaped) cores 9) has some specimens of ordinary burins 10) but only one doubtful example of a pseudo-burins (Irving 1955) which could also be a side-blade, may indicate that this industry is older than that of the "classic" Denbigh Flint Complex, where pseudo-burins are as well represented as ordinary burins and retouched burins. Furthermore, mention may be made that R. S. Solecki reports on two sites of the Arctic Small Tool Tradition from the Kukpowruk and Kokolik area: one of them (site no. 121) yielded wedge-shaped cores, the other (site no. 65) rather large polyhedral cores (Solecki 1950, p. 67; 1951). It would be important to know more about the burins of these two sites. 11) It may be that the pseudo-burin and the spall-burin technique are an American invention. At least I was not able to find similar examples in Asiatic industries; though we don't yet know very much about the burins on the opposite Siberian coast (Chard 1955, p. 167). It would also be of interest to know if and what kinds of burins are represented in the "microlithic" industries of the Amur region, mentioned by C. S. Chard (1959, p. 47).

I have already mentioned that Meldgaard described only one of the Sarqaq burins collected by Hans Mosegaard as "ordinary", all others are pseudo-burins. The same appears from the publications of Larsen and Meldgaard (1958) and Mathiessen (1958) to be the case for Sermermiut and other Sarqaq sites in the Disko Bay area. Furthermore, we may note that Collins (1953, Fig. 3 m-p)



and Meldgaard (1952, Fig. 78/12,13) illustrate exclusively pseudo-burins from Dorset sites.

If the burin-like implement which is especially characteristic for the Dorset Culture in Greenland, but appears also elsewhere and later (Larsen and Meldgaard 1958, p. 62) is actually connected with the development of burins and pseudo-burins, it must be the latest offshoot.

This of course is only an hypothesis. There is no possibility of quantitatively verifying it through the literature as long as large reports including statistical analyses of the stone material are so scarce in Eskimo archaeology. **\psi/ps/\fettinon/p

Foot-notes:

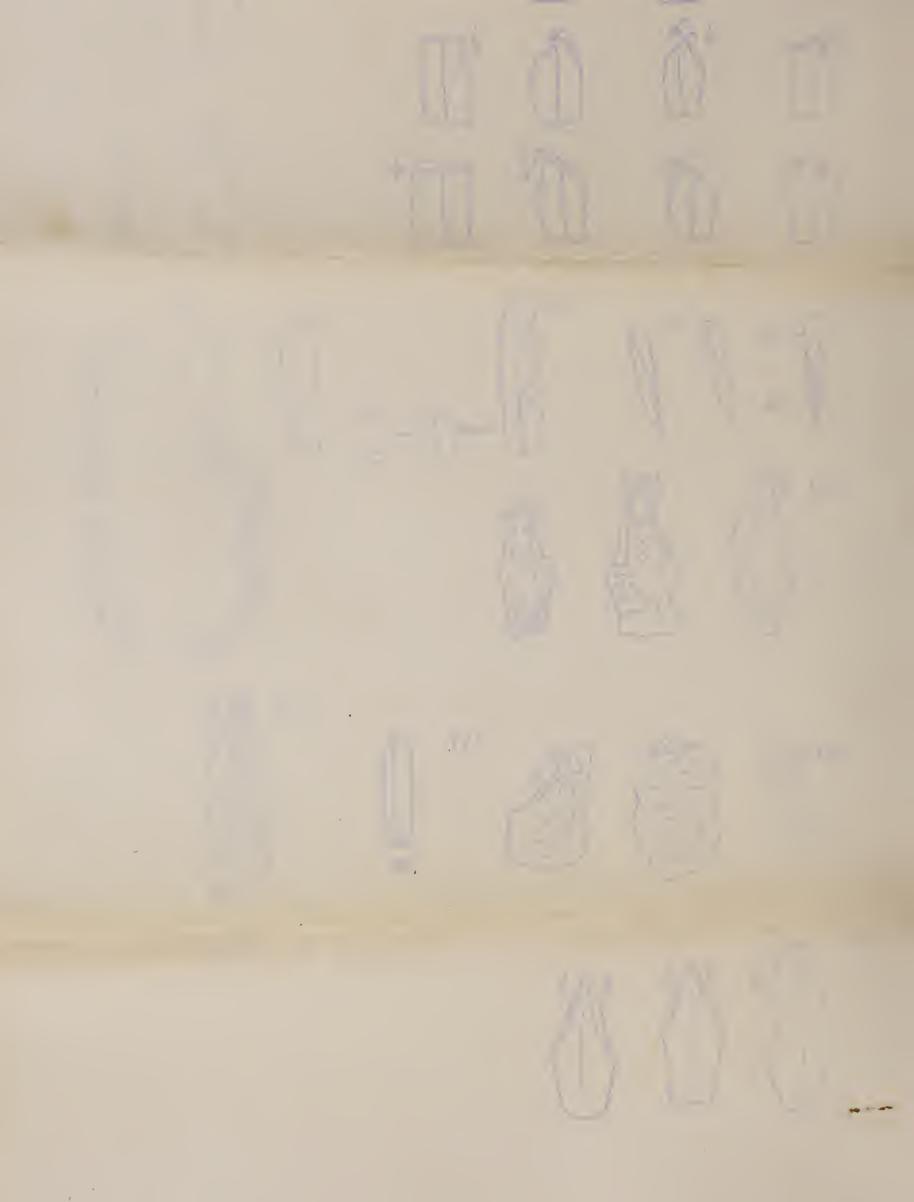
- 1) I am obliged to F. Hadleigh-West for encouraging me to this paper and helping me to translate it.
- 2) Some of the authors in the field of Eskimo archaeology refer to the description of this type of tools be M.C. Burkitt (1920; 1949, p. 59 ss.) and G. V. Noone (1934). There the term "burin" is identified with that of "graver". Actually this may be correct as today an engraver does not use only needle-shaped, pointed by also chisel-shaped graving tools, the latter having more or less the characteristics of a stone age burin. But in prehistory the term "graver" should be used for pointed artifacts only.
- 3) I don't include the "burins of central or convex type" which MacNeish mentions from his British Mountain Phase (1959, p.44 and Pl. 1/6) because I think that if this cultural phase is actually as old as the author thinks and if the artifact in question is really a burin the illustration is not clear enough we could not cornect it with the burins and related implements discussed here.
- 4) See footnote 2)
- 5) In fact it would be better to use the term "pseudo-micro-burins" for these by-products so that very small real burins could be called micbo-burins (I think that J. L. Giddings 1951, p. 195 used the term in the second sense). But as G. R. Lowther has pointed out, it is probably too late to make a change (Lowther 1960, p. 11).
- 6) It seems that the burin spalls figured by Meldgaard (1952, Fig. 78, no. 5) and Knuth (1958, Fig. 4, no. 10-13) are of this kind and not like the burin spalls from Eurasia; the same is true for some Sarqaq burin spalls from Disko Burgt, West Greenland, published by Larsen (Larsen and Meldgaard 1958, Fig. 19).
- 7) In fact the difference between these and the wedge-shaped cores like those from the Campus Site is not very great, though there the spalls are not struck from the sharpened edge but in direction to it. This means that the spalls from wedge-shaped cores have the bulb not, like the spalls from the burin-like cores, on the pointed end but on the wide end.
- 8) I don't know if the original identification as boot-creasers was based on ethnographic evidence. Boot-creasers are usually made of antler or ivory (Nelson 1899, p. 108).
- 9) Befu and Chard (1960) give to this type which is also represented in Japan the following comment: "The special form of probable burin.... which the Japanese archaeologists often call 'Shirataki engraver' (and which we have renamed 'Shirataki core burin') is often produced by a particular method which Yoshizaki has labelled 'Yubetsu technique'." It is true that these artifacts give sometimes the impression of having been used as core burins, though I prefer to call them cores and to not include them in my burin list of the Eskimo area.

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- 10) A review of the material showed that besides the one true burin mentioned by Irving (1955, Fig. 1) there are two others of about the same (poor:) quality plus two which are more doubtful (on one the cutting edge is so narrow that it could also be called a graver).
- 11) Though it seems that J. L. Giddings has recently found on Cape Krusenstern, northwest Alaska, flints like those from the Campus Site on beaches which are a little younger than those with traces of the "classic" Denbigh Flint Complex (personal communication to F. Hadleigh-West), on the other hand we must note that these kinds of cores are sharacteristic for early (preceramic) groups of kinds/f/f/f/ff the Japanese Mesolithic (Befu and Chard 1960; Sugihara 1960). And we find almost the same type of core in the Independence Culture of northern Greenland (Knuth 1954, Fig. 103/5 and 104 a). I therefore think that this type of the Arctic Small Tool Tradition must have reached Alaska rather early.
- 12) It would be very useful if the flint implements could, for the most part, be drawn. The photographic reproductions are usually so poor that often an exact identification is impossible.

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Northern archaeological field studies in 1967 were again largely confined to the west. Perhaps the most notable general observation regarding the work of this and the past two seasons relates to the increasing interest in interior Alaska and adjacent regions of Canada. The present rate of survey and excavation should soon result in an appreciably better perspective of Athapascan culture history, as well as in more precise knowledge of early relationships between the far northwest interior and at the to the south.

Vandalism of Alaskan archaeological sites has recently become a problem of large proportions. Highly destructive amateur diginal is reported from the Alaska Peninsula, Point Hope, Point Barrow, and several localities on the Arctic Slope. Most serious is that numerous sites are being mined for the commercial value of their artifacts; large numbers of which are now offered for sale in Pairbanks and presumably in other Alaska cities. It is certain that the traffic will increase. Corrective suggestions are in that

With two assistants, recommoitered the north and south shores of Kachemak Bay. Don E. Dumond (University of Oregon) participate.

briefly as a visitor. The work was supported by the University of Aleska. Hosley's aims were to determine the extent of damage.

The 196h earthquake, to regional sites originally reported.

Prederice de Laguna (see The Archaeology of Cock Inlet, Alaska.)

The search for other, previously unreported sites. Some of

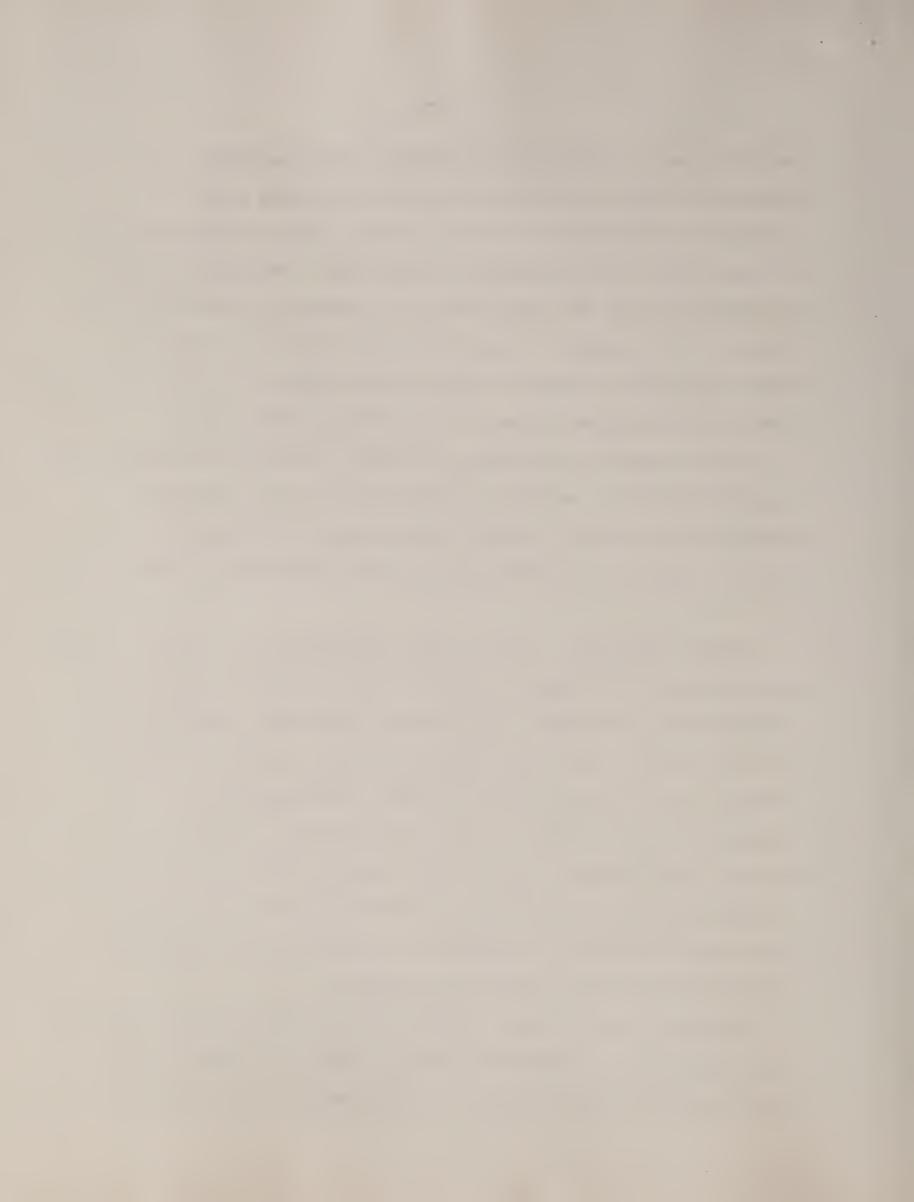


Cottonwood Creek and Yukon Island sites have been completely destroyed by subsistence and wave action, and the pictograph site in Sadie Cove is now submerged at high tide. Twenty-one sites were discovered by the field party, in addition to those previously reported. The largest of the newly found sites is a midden on Indian (Chugachik) Island. Hosley reports that all of the proviously unreported localities appear to be of Eskimo affiliation.

Don E. Dumond (University of Oregon), supported by the Netional Geographic Society, surveyed portions of the Kenai Paninsula. A number of house ruins, probably Athapascan, were discovered and mapped. Dumond plans further surveys and excavations on the Poninsula.

Alaska Poninsula. Don E. Dumond (University of Oregon), accompanied by three assistants, continued surveys and excavations in Kathai National Menument. (See Current Research, American Antiquity. Vol. 31, No. 6). His work, supported by the National Geographic Society, was primarily directed toward the excavation of three ancient houses, two of which will be preserved as exhibits by the National Park Service. Two of the dwellings are of Western Their date and apparent affiliation; the third relates to the regional Small Tool tradition. In addition to this work, two Small Tool tradition houses were partially excavated.

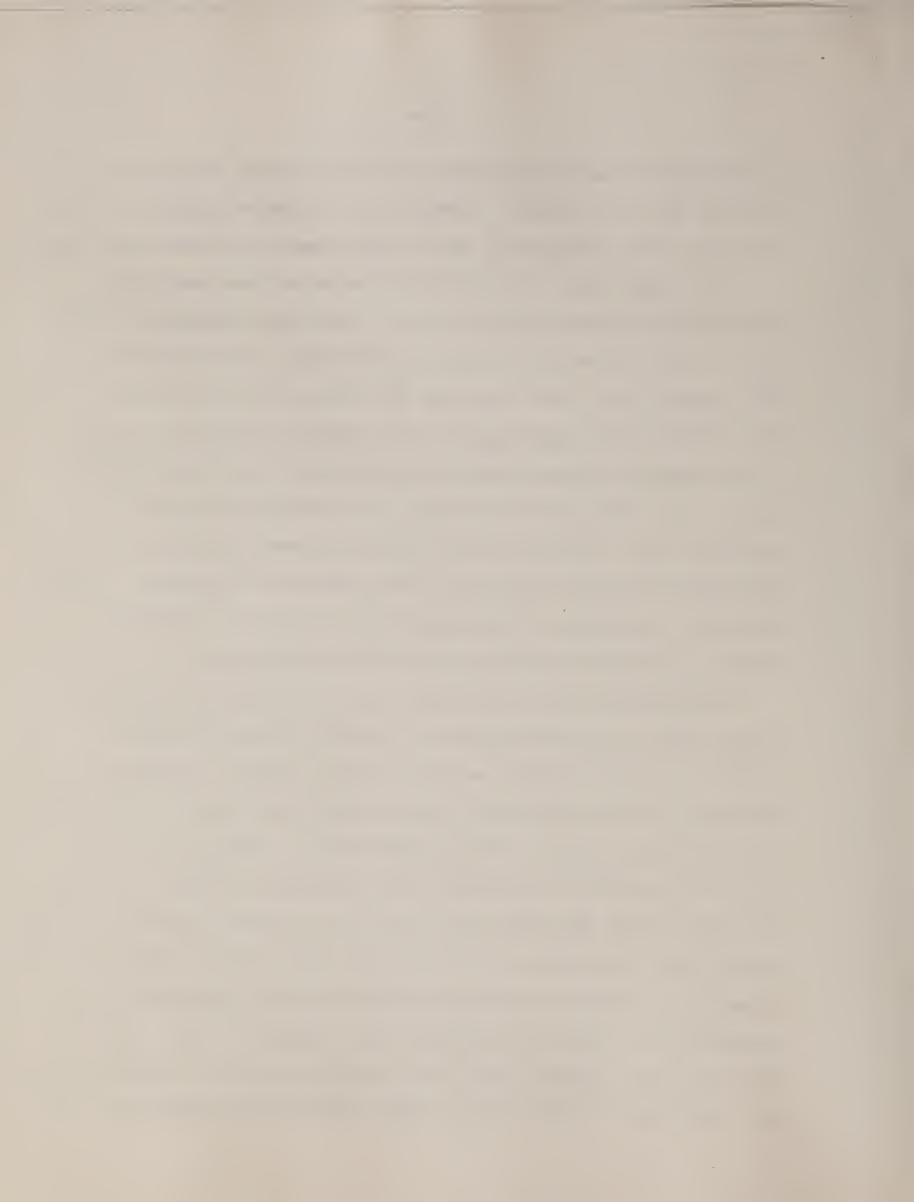
The limit period houses, apparently permanent winter desilings were represented by structures having solid log frameworks and the two desilings.



support the argument that during the Thule period, this locally due occupied the year around. Previous local finds relating to Wastero Thule have been represented only by the remains of summer fish came.

The single Small Tool tradition house that was completely excevated also appears to have been a relatively permanent habitation. Artifacts recovered from the dwellings are intermediate in type between Small Tool tradition and Norton-related artifacts (see Giddings, The Archeology of Cape Denbigh) previously found in the region-regional Norton-like artifacts have been assigned to the Small Creek phase by Dumond. No pottery was discovered in the Small Tool tradition house, but Smelt Creek-type stone artifacts were found associated with Small Tool tradition implements. Dumond, therefore, interprets the collection to stand for a transition between the Small Tool tradition and Norton culture.

Excavations in the Thule dwelling site revealed, in addition to the Thule houses noted above, a deposit of pre-Small Tool tradition artifacts which, on the basis of previous excavations for the area, has been named the Brooks River Strand phase. Radice of a dates place the phase at about 2500-1900 B.C. Dumond says that the 1967 collection of pre-Small Tool tradition artifacts probably dates from about 2500-2000 B.C. and that it almost certainly rolets to the Takli Birch phase of the Pacific coast of the Alaska Peainsula. These related phases are characterized by stone lamps and large preentages of rubbed slate implements. Welther of those trails appear in later regional Small Tool tradition sites. Dumond constrains the for several hundred years before approximately 1960 B.C., both

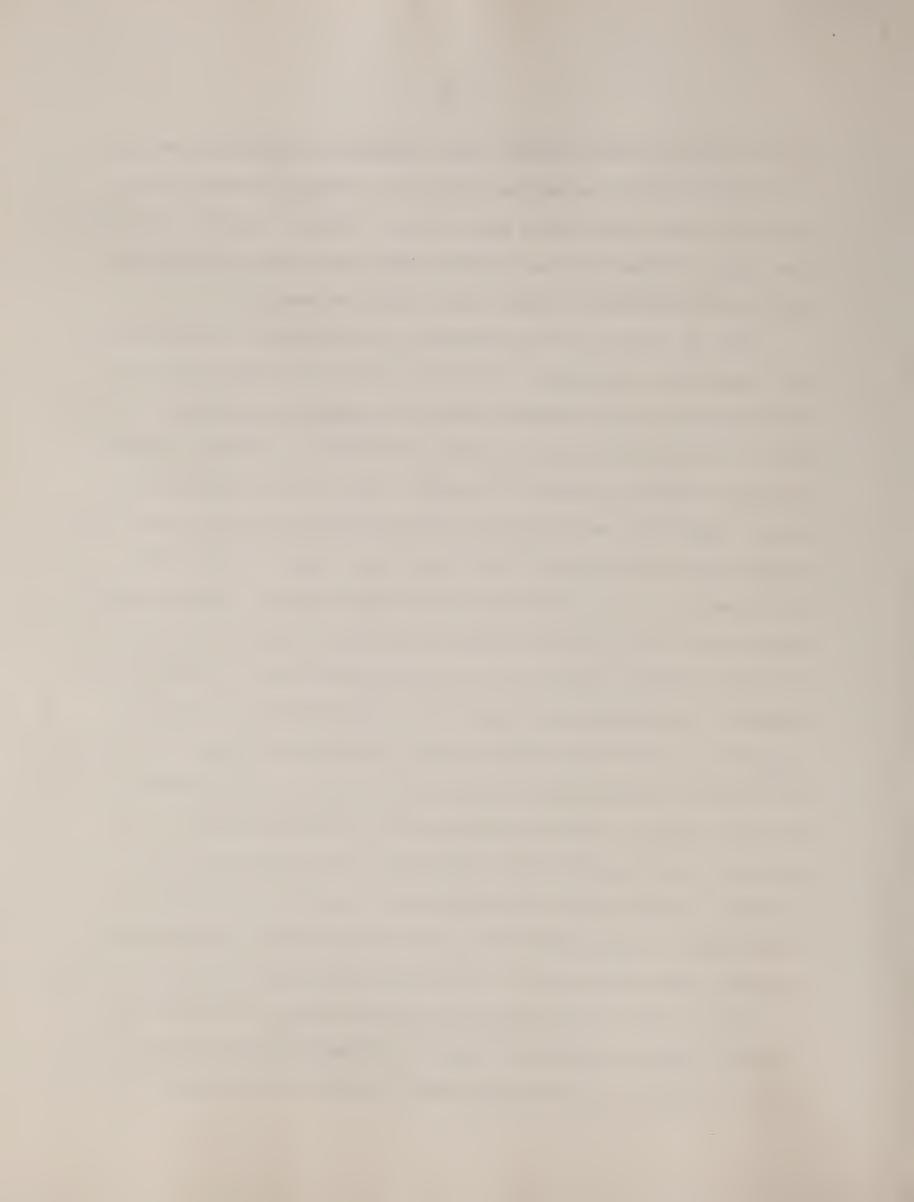


to those of Kodiak Island and the North Pacific American coast.

Following about 1900 B.C., parts of the Alaska Peninsula, including the Large, Naknek drainage area of which the Brooks River is a part, were occupied by Small Tool tradition peoples.

Joan B. Townsend (The University of Manitoba), accompanied by two assistants, excavated the Russian Point and Pedro Bay sites: on Iliamna Lake (see Current Research, American Antiquity, Vol. 32, No. 4). She was supported by the University of Manitobe and the National Research Council of Canada. Her work was an extension of her continuing study of the culture history of the Iliams area. A major part of Townsend's 1967 study was aimed at a further illumination of the Pedro Bay site, which contains mixed components Toward this end, she excavated two additional houses in the single component Russian Point site. The onlarged Russian Point artifact inventory, consisting of types also represented in one of the components at the Pedro Bay site, now permits more precise knowledge of component differences in the latter locality. The results of the 1967 Russian Point excavations imply that the Russian Point Possibity was occupied at the end of the 18th or early in the 19th century. Russian Point artifact types include - in addition to trice goods - bayonet ground ground slate points, boulder-chipped rerapore, and worked bone. One bone artifect may be a spear thrower.

Nork at the Pedro Bay site consisted mainly of excavations of exca



Townsend reports that typologically they most closely resemble Ocean Bay I and II implements reported by Clark from Kodiak Island (see Clark, American Antiquity, Vol. 31, No. 3, Pt. 1). Carbon samples collected by Townsend's crew should provide dates for Mais carly Pedro Bay component.

Southwestern Alaska. James W. VanStone (Field Museum of Natural Ristory), accompanied by one assistant, continued investigation in the Nushagak River region (see Current Research, American Antiquity, Vol. 31, No. 6). He was supported by the National Foundation for the Humanities. A 19th century habitation site, near the village of Exwak, was excevated, and the lower Mulchathae River, and Nushagak Bay were recommended. Ethnographic data also collected at Exwak and at other nearby settlements. VanStone 1967 work was an extension of a long-range program of study of regional 19th century culture change.

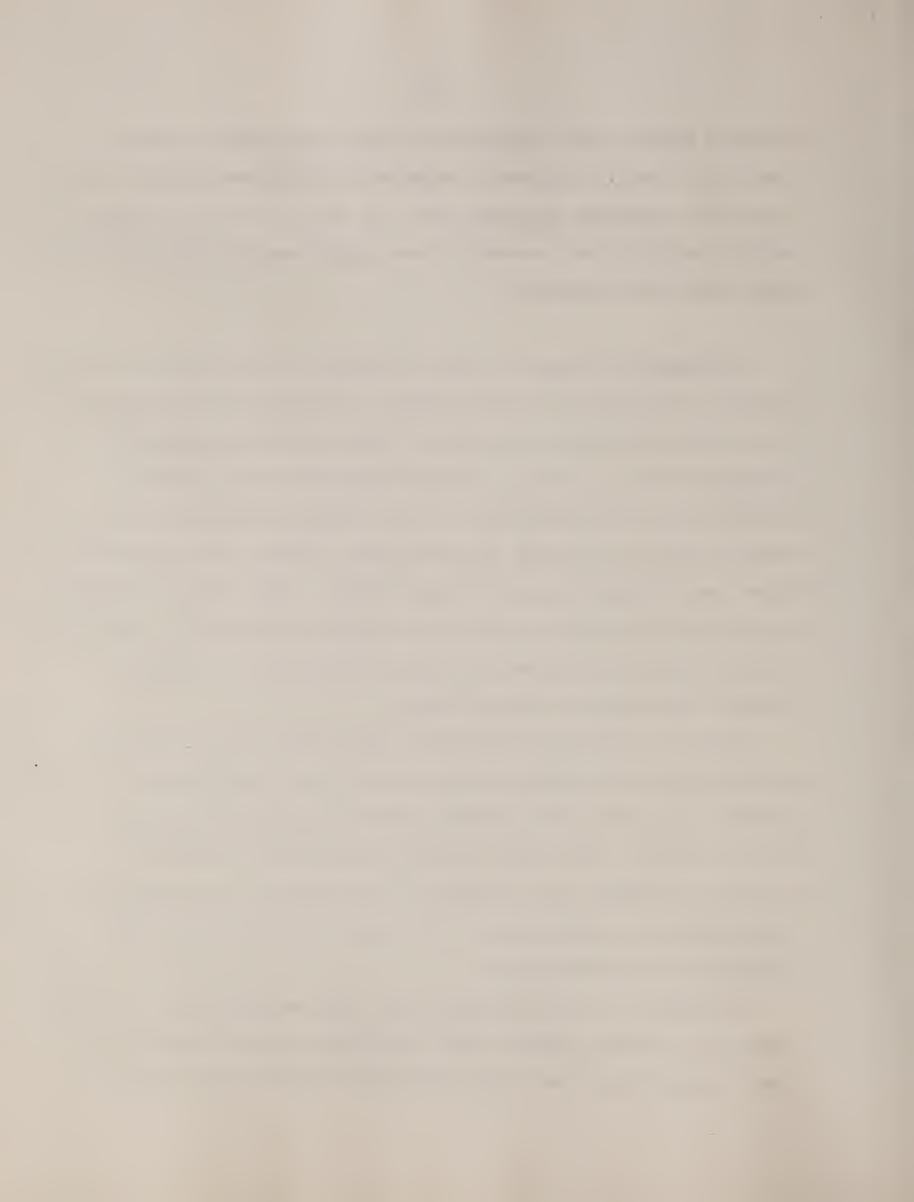
Robert E. Ackerman (Washington State University) continued archaeological and ethnological studies in the Cape Newonham.

Geodnews Bay region (see Current Research, American Antiquity.

Vol. 32, No. 4). His crew of nine included Richard Ross and Lillian A. Ackerman, who served as archaeological and ethnological directors, respectively. The work was supported by the Lillian A. Science Foundation.

At Chagven Bay, additional houses were excavated in the large.

10 dise. Ackerman reports that dwollings in each of seven major clusters have now been intensively examined, and that the

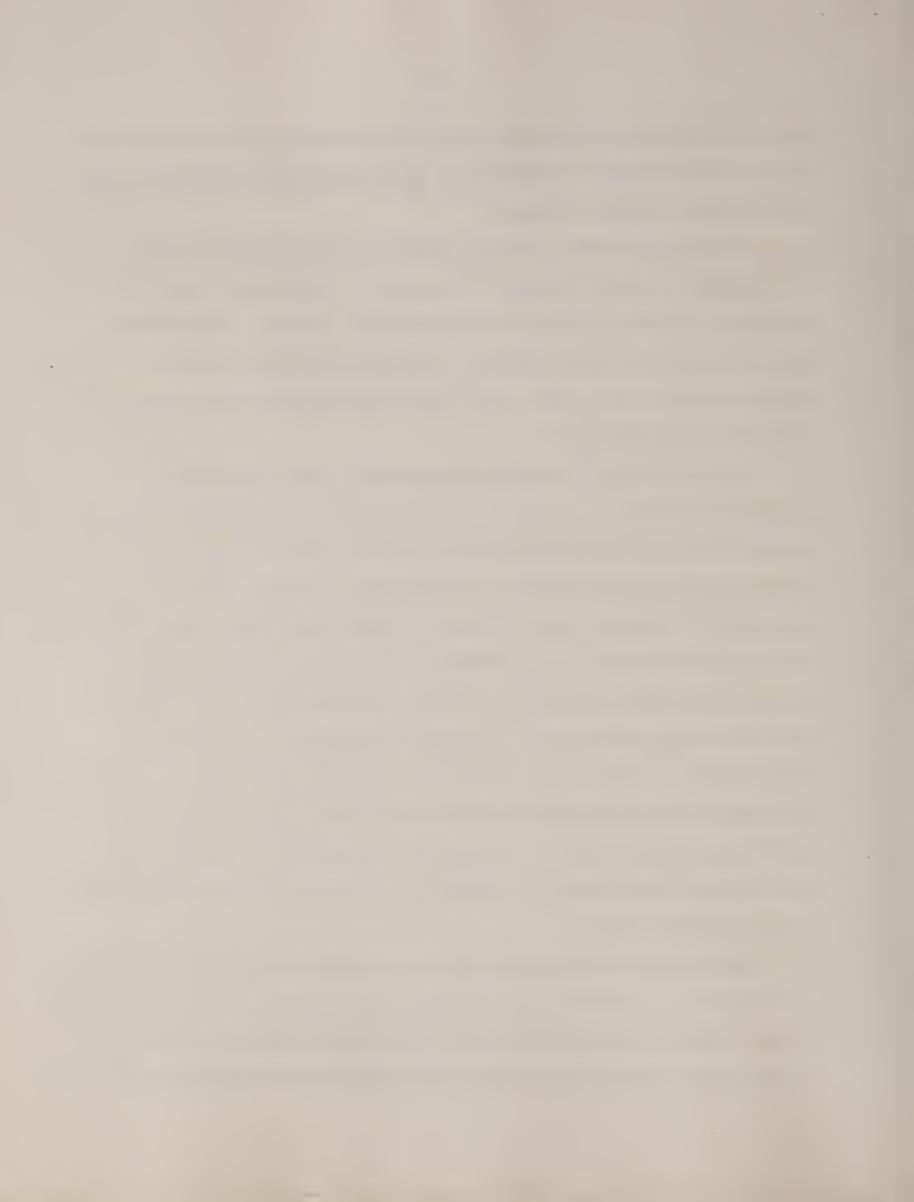


data indicate gradual change during the interval that spans from thout Norton times (see Giddings, The Archeology of Cape Denbigh) to the late historic period.

At Security Cove, further evidence was found of an eld eccupation, possibly dating to as early as 3000 B.C., the inventory of which is characterized by side notched points. Excavations in that locality also revealed a component which Ackerman believes dates to about A.D. 1000. Its most characteristic tool type is a small, stemmed point.

Regenelator Streit resulted in the discovery of numerous village ruins, the electron which were occupied about A.D. 1. On what is now known of the regional archaeology, Ackerman thinks that the early, notched point cultures probably persisted until replaced by what he refers to as pre-Norton components, which are related to the Small Tool tradition - Norton transitional phase reported from the Alaska Peninsula by Dumond (see above). He believes that Norton culture then developed, and fourished until graduelly replaced by a variant of Western Thule which carried the "stamp" of Southwestern Alaska. According to Ackerman's interpretation the Western Thule variant survived, with some modifications, until late historic times.

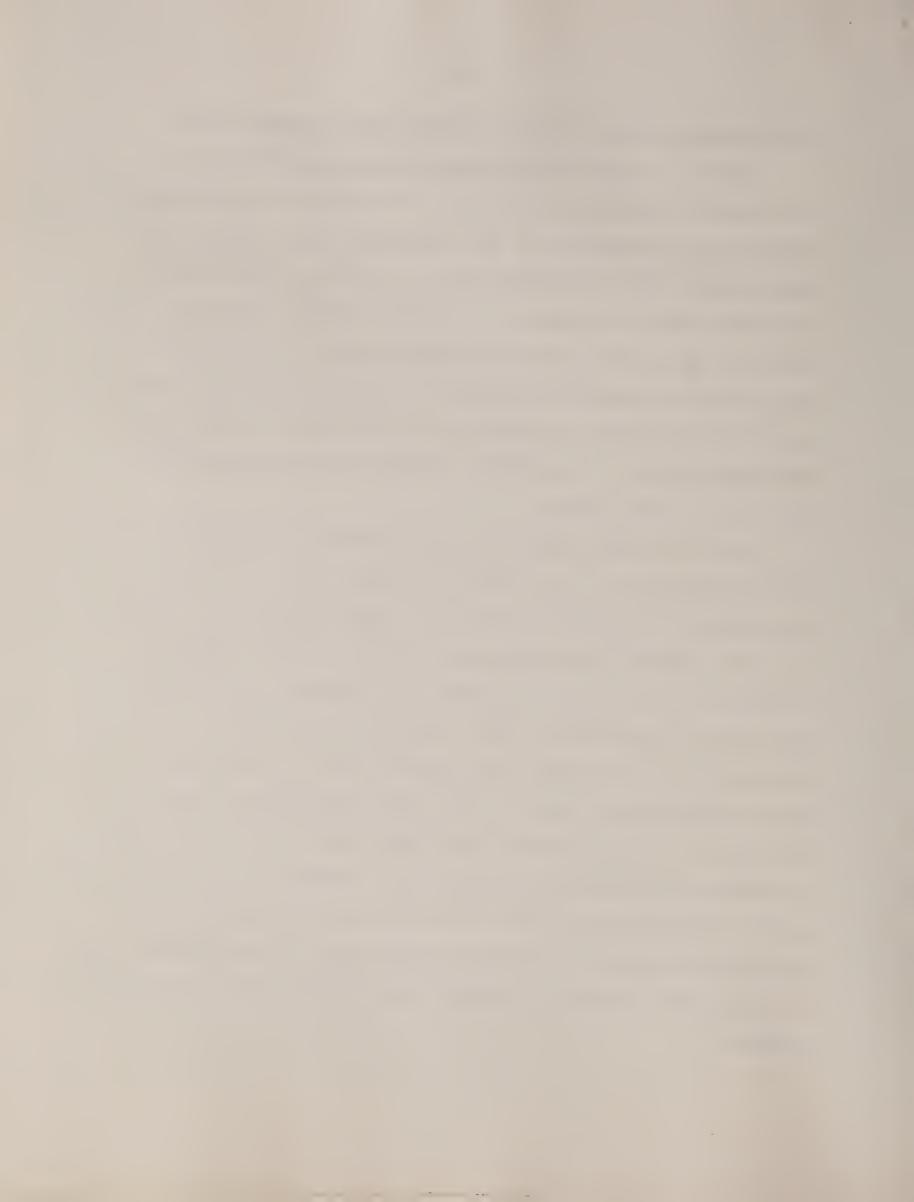
Ethnological work in the village of Goodnews Bay was designed to emprore and central the archaeological studies. Dwellings and the archaeological studies and feature and make and feature and feature and make and the numbers and make



of implements within various artifact complexes were noted.

Wondell H. Oswalt (University of Southern California at
Los Angeles) continued excavations at the site of the Kolmakov
Redoubt on the south bank of the Kuskokwim River opposite the
mouth of the Kwik or Kolmakov River. In 1966 a block house, a
road house (or men's house), two Eskimo workers dwellings, enother
dwelling, the Russian-American Company store, and two bath-houses
were wholly or partially excavated. In 1967 a Russian workers
quarters, two priests dwellings, and one other structure were
excavated in part. In addition, various test excavations were
made during both seasons.

major occupations; it was held by Russians from A.D. 1841 to
A.D. 1866, and by Americans from A.D. 1869 to about A.D. 1915.
The total Kelmakov collection new contains several thousand sutifacts, most of which date from the American era of occupation and includes cartridges, coins, evockery, beads, nails, and motal containers—to name some major types—as well as implements of Eskimo manufacture. Oswalt states that the Kolmakov Redoubt excevations are the first in the Eskimo area of Alaska in which a Russian level of occupation has been isolated in an archaeological size that the Kolmakov site promises a rather process chronological inventory of the kinds of manufactured items traced to the Eskimos of western Alaska during much of the kinds pariod.



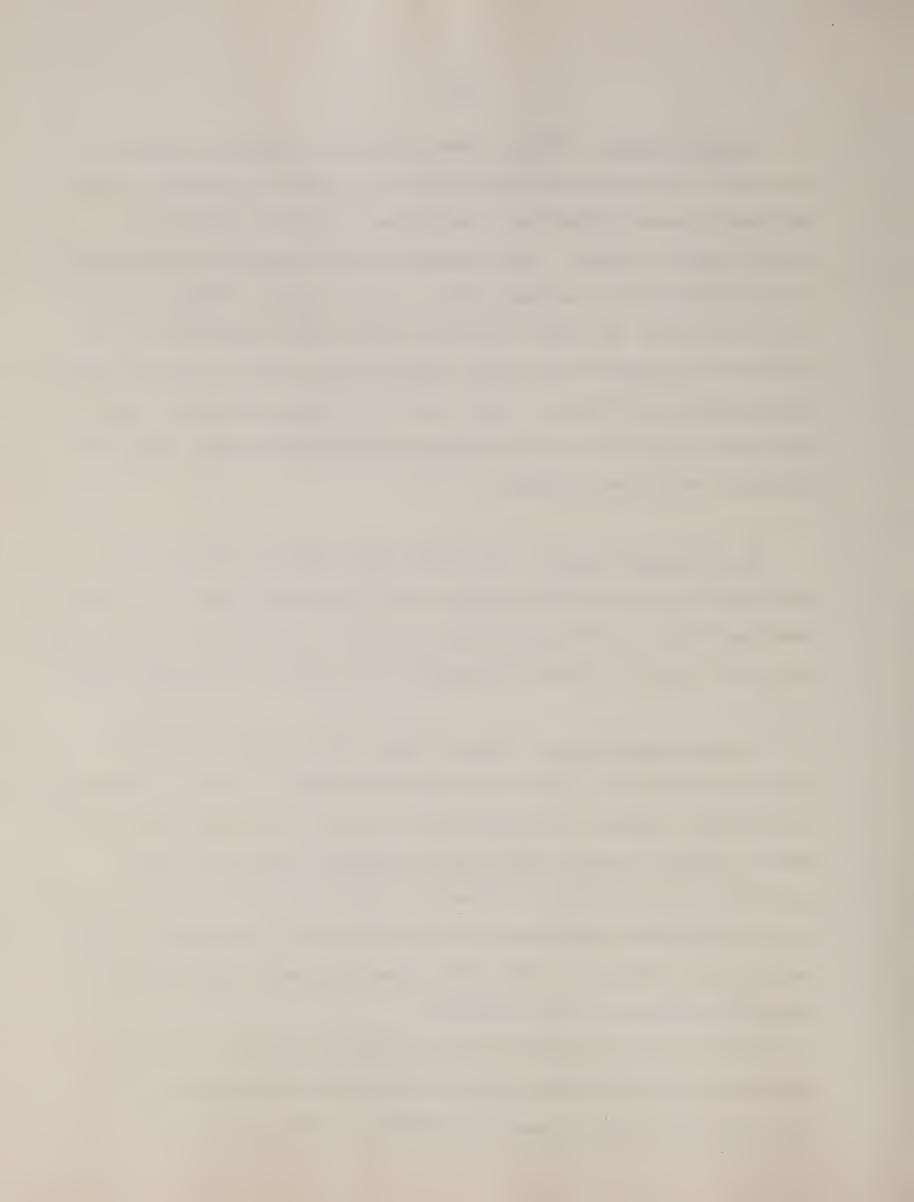
Nunivak Island. Michael Nowak (Colorado College), with creassistant, surveyed on Nunivak Island. His work, supported by the National Science Foundation, inaugurated a program of Nunivak probaeological studies. Test excavations were made at six localities in both northern and southern parts of the Island. Several hundred stone implements and about 2,000 pot shords were discovered. The collections represent two major culture-time periods; late prohistoric western Thule and Norton. In at least two sites, these two major manifestations were clearly separated stratigraphically. One site contained only Norton remains.

St. Lawrence Island. Hans-Georg Bandi (University of Bern)
continued surveys and excavations on St. Lawrence Island. A large
Punuk graveyard was discovered and partially excavated. A scarch for
early men sites in interior portions of the Island was unsuccessful.

Northwestern Alaska. Edward Hosley (University of Alaska)
cocompanied by G. D. Sharma (of that University) and five assistant.
surveyed the Ipiutak, Jabbertown, and Tigara sites (see Larsen and Rirey, Ipiutak and the Arctic Whale Hunting Culture) and other
localities at Point Hope. The work, supported by the United States
Corps of Engineers, was simed at determining the remaining scientific value of the well-known Point Hope sites in view of their resent
dings by presion and other factors.

toth Tigara and Ipiutak were surveyed and mapped, and satisfications of artifacts were excavated from own.

Tigara collection appears to include a number of turin-like



numbers of Ipiutak-like artifacts were collected from the surfaces of Ipiutak beach ridges. The latter implements, from 25-30 blow-out localities, include projectile points, flake-knives, scrapers, and large cores. They were usually found in association with walrus shalls. Hosley believes that the scattered blow-outs probably represent Ipiutak kill sites. It was found that autumn storms and ice shoving has destroyed all but a very small remnant of the once very large Tigara midden, and that erosional destruction is continuing at a rate of 50-75 horizontal feet a year. Hosley estimates that at the present rate, the midden will be totally destroyed within ten years. Similar agents have caused the destruction of from 30-50 percent of the original Ipiutak site. Hosley observes that if further studies are to be made of Ipiutak and Tigara, they must be accomplished in the near future.

Central Alaska. Frederick Hadleigh-West (Alaska Methodist University), with two assistants, continued investigations in the area about Tangle Lakes (see Current Research, American Antiquity, Vol. 32, No. 4). His primary purpose was to further investigate regional cultural succession. Twenty-five new sites were discovered ouring the 1967 season; a total of 127 localities, all of which contain only lithic materials, are now known in the Tangle Lakes Meglan.

Artifacts and features discovered in 1967, which are previously and tot for Tangle Lakes, include a flint quarry site, not that



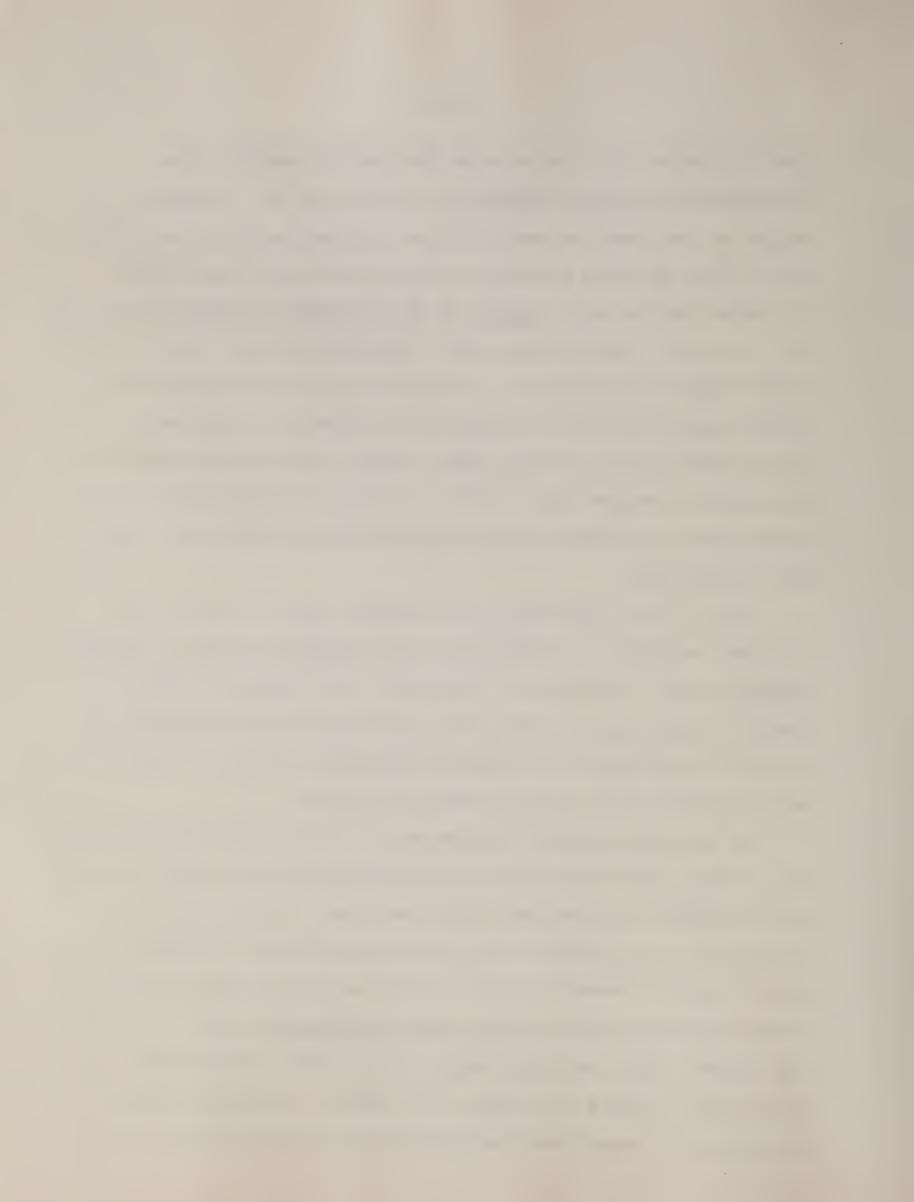
Ponnelly burins which belong with the Denali inventory (see Hadleigh-West, American Antiquity, Vol. 32, No. 3), a conical variant of the Denali microblade core, and polyhedral cores of the size of some of those previously reported from the Arctic Slope of Alaska (see Solecki, Journal of the Washington Academy of Sciences, Vol 1, No. 3). Hadleigh-West also tentatively assigns the polyhedrol cores to the Denali complex. An outstanding find consisted of an ancient house in which 130 notched and lanceolate points were found together with numerous faunal remains and abundant charcoal. Hadleigh-West remarks that results of the 1967 season support his estimate that the Tangle Lakes region has been occupied for more than 10,000 years.

John P. Cook (University of Wisconsin) with a crew of five, continued excavations at Healy Lake (see Current Research, American Antiquity, Vol. 32, No. 4). Consultants and visitors included Thomas D. Hamilton, Leurence Irving and Peter Morrison (University of Alaska), and Robert A. McKennan (Dartmouth College). The work was supported by the National Museum of Canada.

Two of eleven localities discovered on the Lake, were exervated.

One of these, the Garden site, yielded more than 500 stone artifacts, most of which are microcores and microblades. In the other, the Philage site, Cook and his crew found four periods of occupation, mue of the more recent of which appears to quite directly relate to the Campus Site (see Nolson, American Antiquity, Vol. 2, No. 4)

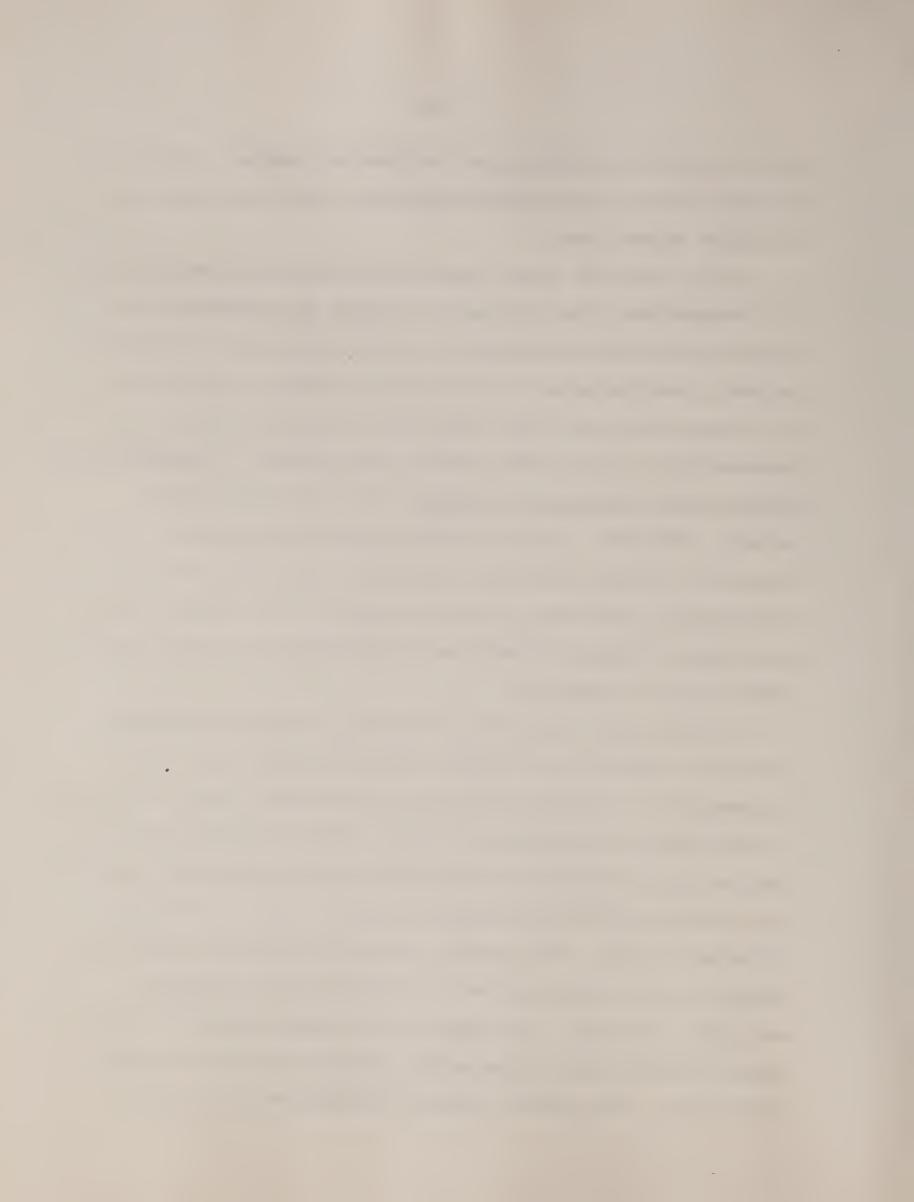
The reports that the lowest occupational level, which about the identity predate the Campus-like remains, contained numerous bind and small manual bones associated with several hearths, and



that it yielded presumably good radiocarbon samples. He further says that several radiocarbon samples were also recovered from the later Campus level.

On the basis of as yet unconfirmed evidence derived from the 1967 executions, Cook has reason to think that cremation was practiced by peoples represented by the Campus phase. Of further interest, Cook believes, on the basis of remains recovered from the Village site, that both notched and lanceolate points are characteristic of the Tuktu complex (see Campbell in Anthropological Papers of the University of Alaska, Vol. 9, No. 2), and its several affiliates. Typical Tuktu points and lanceolate types occurred in direct association under what appeared to be good stratigraphic conditions. Cook also reports that in the Village site typical Tuktu microcores were associated with conical and other types of microcores.

Eduard Hosley (University of Alaska), accompanied by one assistant, excavated the Birches site on the west arm of Lake Winchumina in the upper Kantishna River drainage. He was supported by the American Philosophical Society. Hosley's purpose was to complete the excavation of the small village site, which contained seven semiaubterranean rectangular houses. The site was first excavated in 1962. The locality contained rectangular dwellings runging in size from nine feet to eighteen feet in greatest noticental dimension. All consisted of single rooms containing control dimension. All consisted of single rooms containing the standard hearths which lacked either tunnel entrances or adjoint betternoones. The artifact series is characterized by small



implements. Major types include lanceolate points, ovoid bifacial knives, flake-knives, possible side blades, gravers, end-scrapers, wetstenes, abraders and other. Charred birchbark basketry was also found. Associated faunal remains consisted largely of pike (Esox) and caribou (Rangifer). A radiocarbon date of A.D. 1327-195 years (T-2617) has been obtained from charcoal recovered from one of the seven houses. Hosley states that the site is probably Athapascan and that it represents one of the later phases of the so-called Denetasiro tradition.

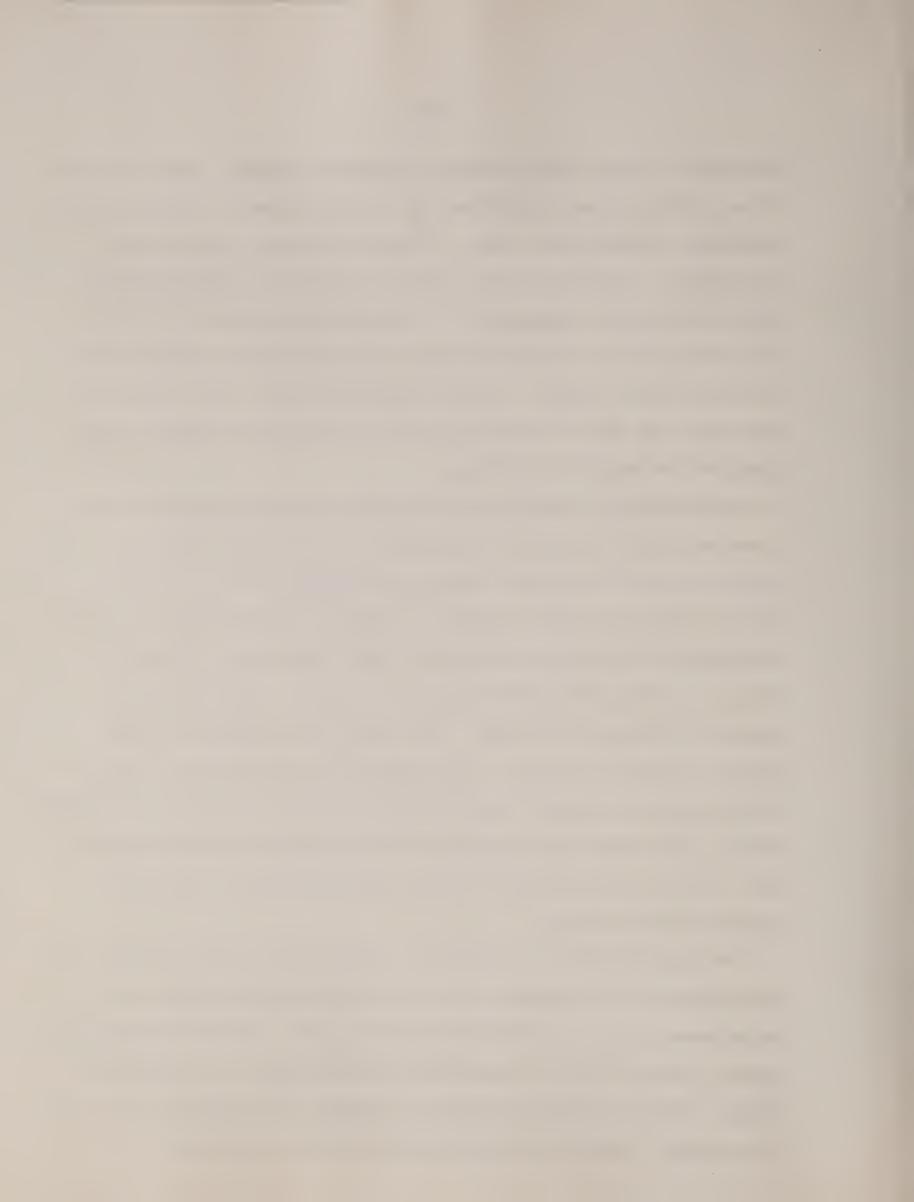
Edward Hosley (University of Alaska) supervised the work of a crew of four in further excavations of the Campus site, at College, Alaska (see Nelson, American Antiquity, Vol. 2, No. 4).

Jeffrey Mauger was field foreman. Visitors included Don E. Dumand (University of Oregon), Hans-Georg Bandi (University of Bern),

William N. Irving (National Museum of Canada), and Robert A.

Melennan (Dartmouth College). The study was supported by the Mational Museum of Canada. The primary aims were salvage, determination of stratigraphic associations, and the obtaining of datable comains. The 1967 work resulted in the excavation of most of the olte. Five to ten percent of the locality was left intact for possible further study.

No stratigraphy was detected - the artifact bearing level has affected by permafrost, and both solifluction lobes and its case were found at the base of the deposit. Nor were appropriate the remains found in quantities large enough for radical bone ways although minute amounts of charcoal and calcined bone ways appropriated. About 3,000 stone artifacts were recovered from the

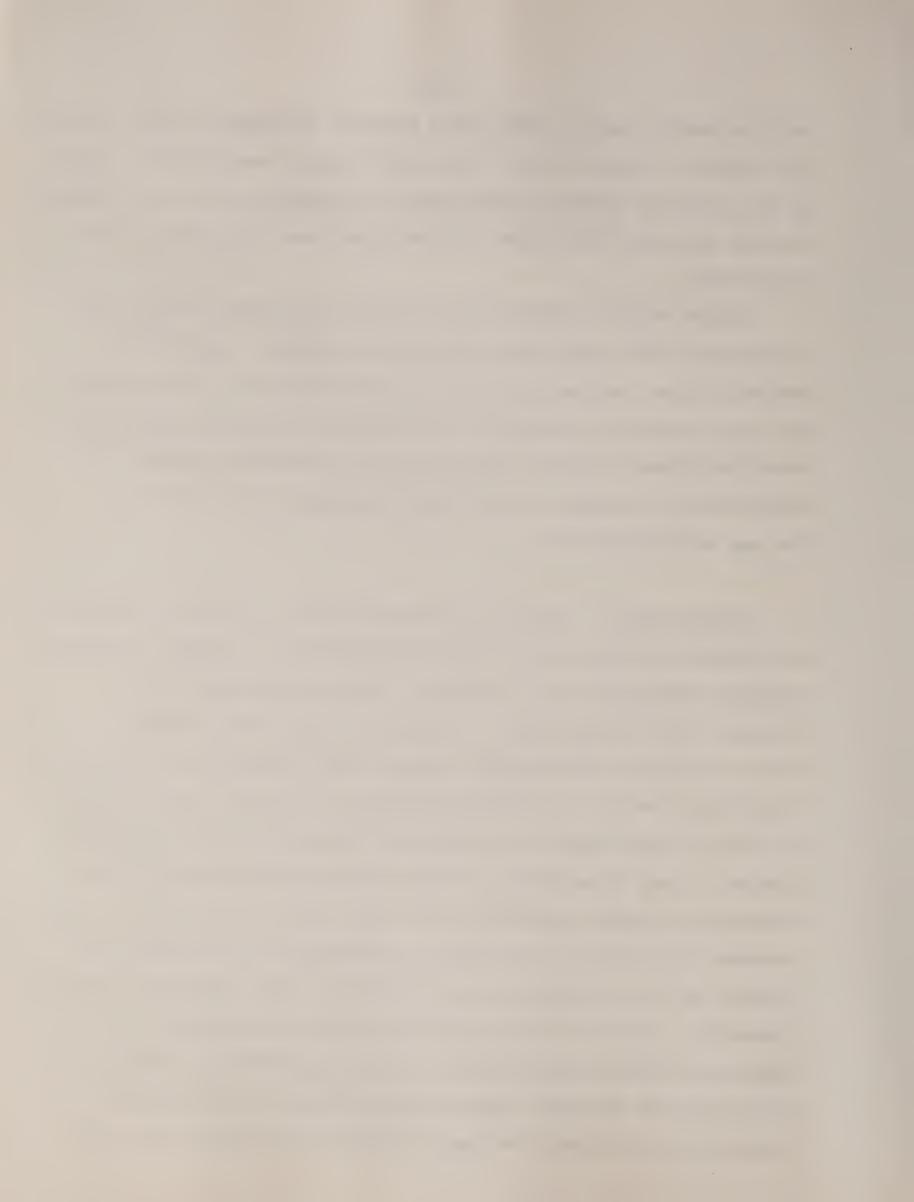


They include Cascade-like or Lerma-like points (see MacNeish, Parass of the Robert S. Peabody Foundation for Archaeology, Vel. 6), notehed burins, numerous microblades, end-scrapers, and microcores of the Carpus type.

Hosley reports that the Campus type cores appear to have been restricted to the lower two-thirds of the deposit, and that the notched burins occurred only in the upper two-thirds. He says that the total artifact inventory is essentially like that of the Northwest Microblade tradition (see reference to MacNeish, above) and shares much in common with the Denali complex; and he estimates its age as 6500-5500 B.C.

Brooks Reage. Douglas D. Anderson (Brown University) returned to the Onion Portage site, on the Kobuk River (see Current Research, American Antiquity, Vol. 32, No. 4). He was supported by the National Science Foundation. Anderson's large crew included Ruth W. Giddings (Haffenreffer Museum, Brown University), who far leboratory director. Primary objectives of the 1967 season were to obtain larger samples of artifacts bearing upon subtle stylistic changes through time within a single cultural tradition; to obtain rediocarbon samples associated with those parts of the Onion Portage sequence which are not yet dated; to determine the stratigraphic position of the so-called Akmak assemblage, which had been previously discovered outside of the stratified portion of the site; to determine possible relationships between environmental changes.

Mich had been previously discovered outside of the stratified portion of the site; to determine possible relationships between environmental changes.

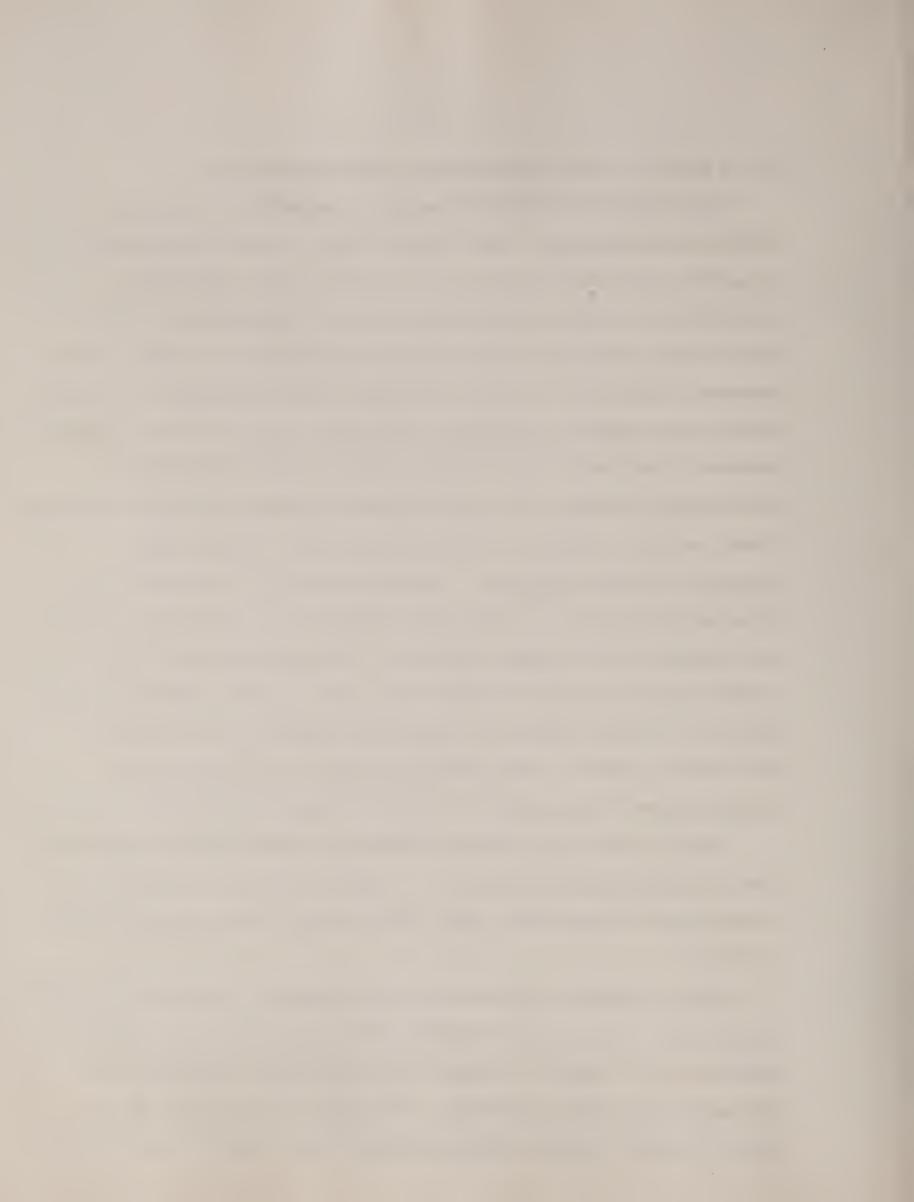


and to collect recent and present environmental data.

Major results of the 1967 work, as reported by Anderson, include the following. Data from his Band 2 levels demonstrate so as yet undescribed culture or tradition which apparently intruded in the Kobuk region and caused an abrupt break in the Onlow Portago sequence between Norton and Ipiutak cultures. Data recovered from Band 3 further illuminate the development of Choris culture (see Giddings, American Antiquity, Vol. 23, No. 2). Data recovered from Bands 4 and 5 now permit the description of a developmental sequence from what Anderson refers to as proto-Donbigh, through classic Dembigh, to late Denbigh (see Giddings, The Archeology of Cape Denbigh). Evidence from Band 8 testifies to three separate levels - presumably related to occupations - which may correlate with climatic changes. Three radiocarbon dates (P-1076, P-1111, P-1111A) imply that Level 1, Band 8 dates to about 6000 B.C. In 1967 charcoal radiocarbon samples were recovered from Level 3, Band 8. The forthcoming ages of these samples should relate to the cultural-climatic changes noted above.

Finally, in 1967, Anderson determined that the previously noted akmak assemblage predates Band 8. Anderson believes, on the basis of typological comparisons, that Akmak should date between 12,000 8,000 B.C.

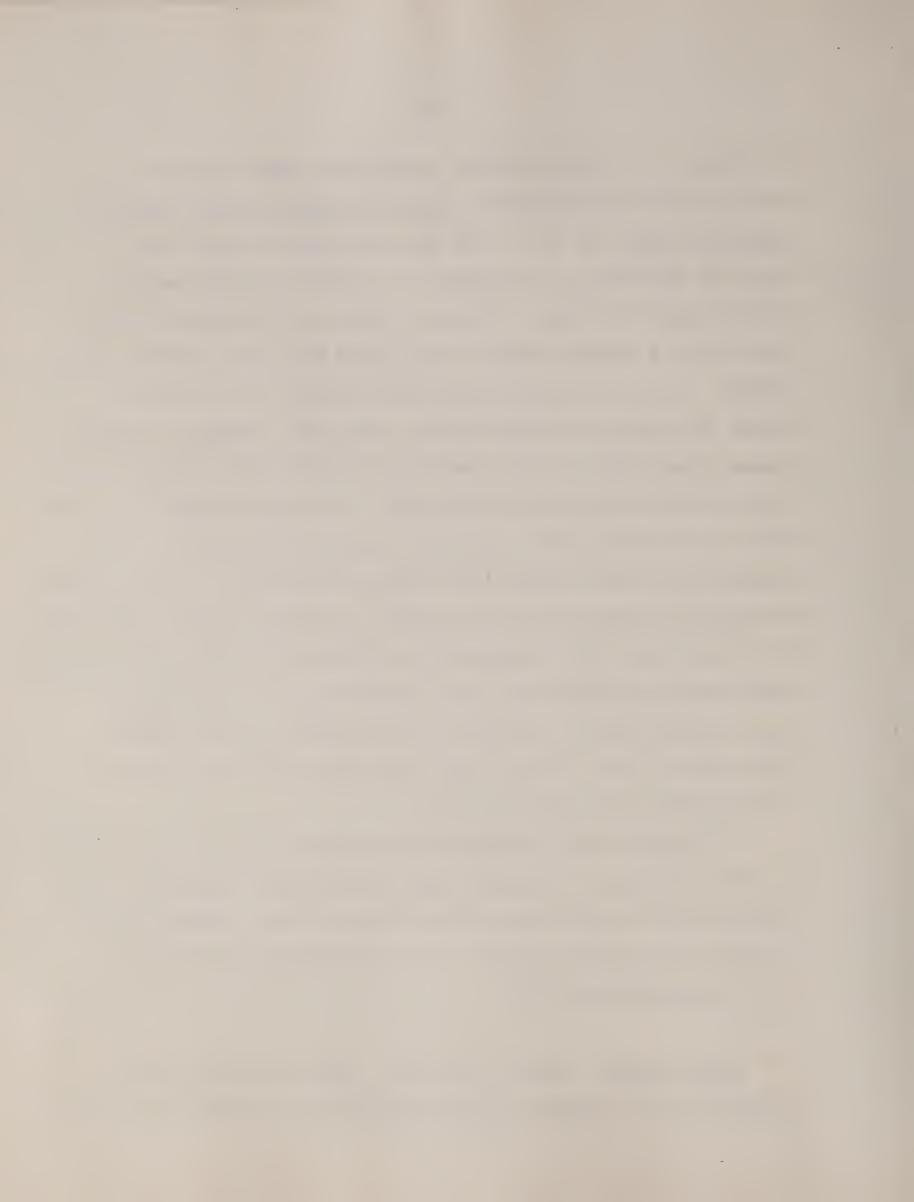
John M. Campbell (University of New Mexico), with two assistants, manyoyed and excavated at Anaktuvuk Pass, and in the vicinity of Mexico) was field associate. The work was supported by the



New Mexico. At Anakturuk Pass, excavations were resumed at the Mavik locality (see Campbell, Arctic Institute of North America Technical Paper, No. 11). The site containing at least two ercas of settlement, is situated at a caribou crossing on the shallow Anaktuvuk River. Cultural, faunal and botanical remains occurred to a maximum depth of ten inches below the present ground surface. The few artifacts recovered included, most notably, author arrowheads or leister prongs, and small stemmed or lesenge shaped stone points of the previously reported Kavik type. Peatures encountered consisted of fire hearths. No traces of dwellings were found and since the site represents a habitation locality, it is presumed that Kavik houses were surface structures. On the presence of nighty perishable organic materials, Campbell believes that Kavik is no more than a few centuries old; further, in view of the evidence from excavations that have been conducted in the far northwest cinco the discovery of Kavik, and on the basis of the artifacts discovered in 1967, Campbell now thinks that Kavik may represent Indian rather than Eskimo culturo.

At Chandler Lake a previously unreported camp site was discovered. The site, probably of Numamut Eskine affiliation, occupies a fairly extensive area on the bank of the Chandler River, between Little Chandler and Akvalutak Lakes. It is intended that the locality will be excavated in 1968.

Arctic Slove. Edwin S. Hell, Jr. (Ohio State University)

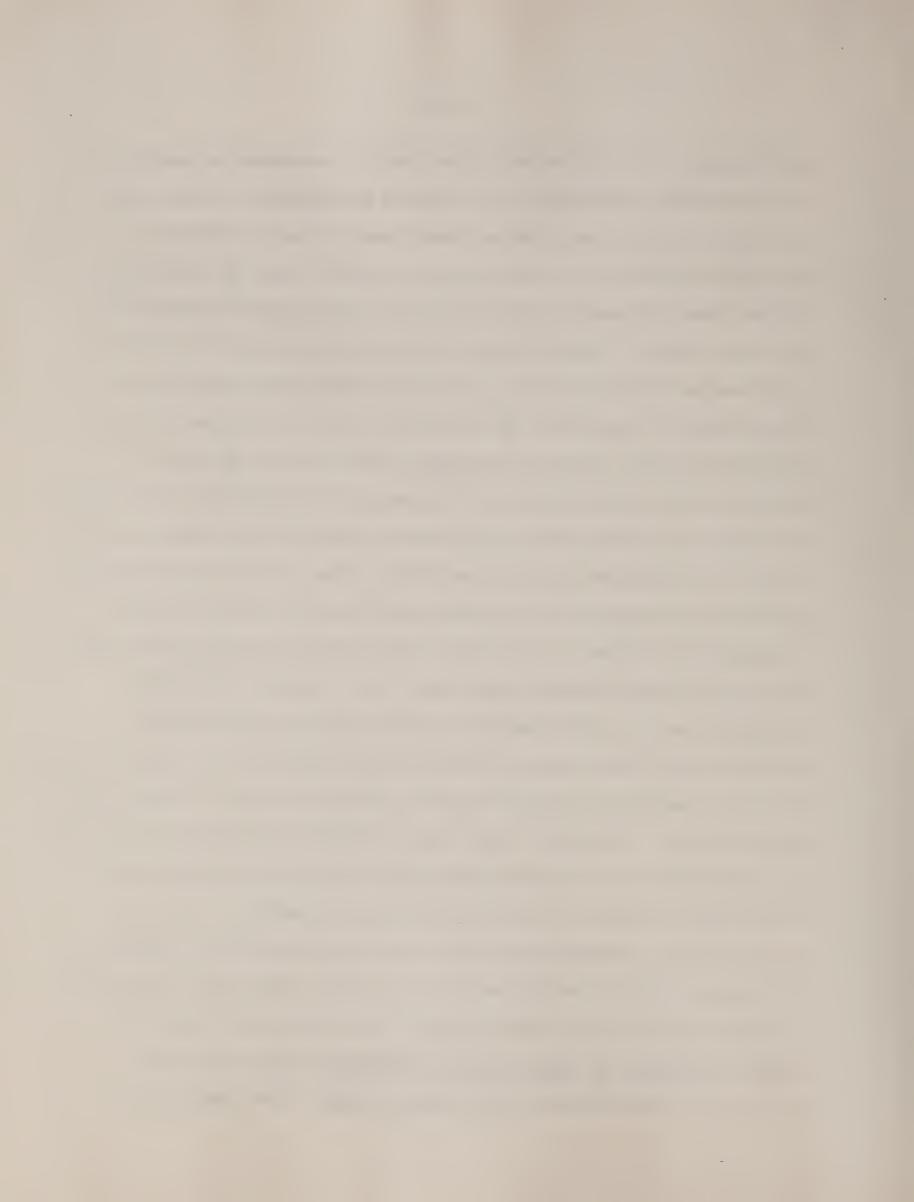


arrial and ground survey of the Arctic Slope. Hall reconnectored wil of the large lakes and many of the streams in an area bounded on the north by the interior edge of the Coastal Plain, on the south by the Nostak River, on the east by the Anuktuvuk River, and on the west by the Chukchi Sea. Hall's major purpose, with an eye towards future excavations, was the discovery of late prehistoric Eskina encampments. In addition to Eskimo village sites on Itivluk and Desperation Lakes previously reported by Irving (see Arctic Anthropology, Vol. 1, No. 1), Hall found large camp sites on Botty, Burial, Kaiyak, Liberator, Swayback, and Tukutu Lakes. The Swayback and Tukutu Lake sites were found to contain historic as well as late prehistoric components. Hall says that the several sites just noted contain medium sized semisubterranean dwellings and in some cases Endgis (men's houses). The number of dwellings in the sites noted range from 6 to more than 70. In addition to these late or relatively late localities, a number of small, historic sites wors Clacovered. Hall remarks that in regard to future surveys of Account regions by aircraft, it is notoworthy that a number of regional bistoric sites reported by Howard and others (see Stoney, Naval Antiorations in Aleska) were not visible from the sir, and furthersore, could not be found by searching the ground.

Savoral early sites were also discovered. At Walker Lake, on the hoadwaters of the Kobuk River, excavations of a small camp site not also artifacts resembling both Tuktu and Naiyuk types (see how both inthropological Papers of the University of Alaska, Vol. 10, 2). Look Tuktu-like and lanceolate points were found in



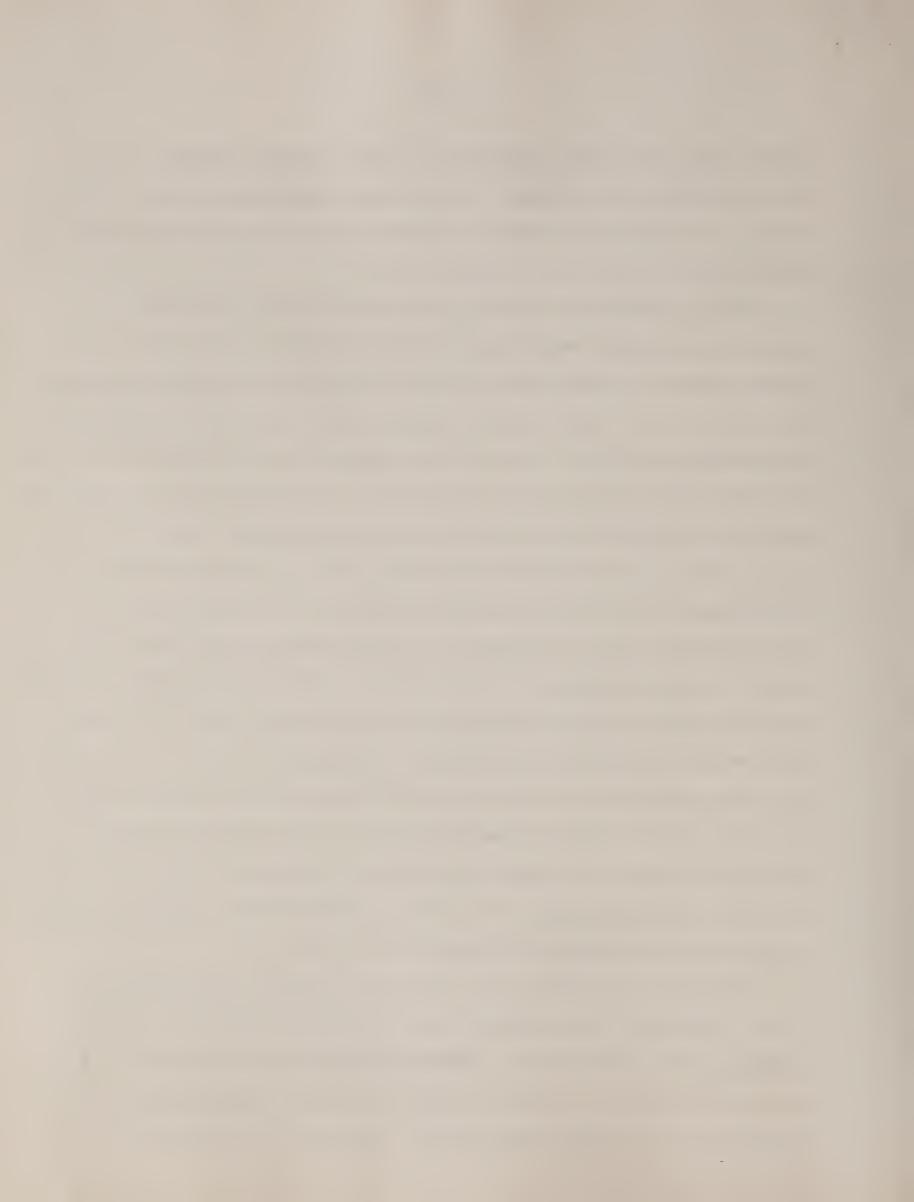
association. Hall notes that the site may represent a portion of a Tuktu-Naiyuk continuum, or it may be interpreted to mean that Tuktu and Naiyuk should not be considered as truly discrest cultural entities. In view of Cook's recent finds at Healy Lake (neted above) it would appear that the latter possibility may be the more likely. Arctic Smell Tool tradition artifacts and other carly stone implement types, including some nearly identical to types recently reported from the Utukok River by Humphrey (see Current Research, American Antiquity, Vol. 32, No. 4) were discovered at various places. Hall makes the following observations, and tentative conclusions: (1) There appears to have been a monthsouth line somewhere west of the Killik River which divided late prehistoric Nunamiut Eskimo groups who commonly dwelt in semisubterranean houses, on the west, from similar groups on the east the occupied only surface dwellings. Hall believes that this disforence may be explained by assuming that the eastern and vertern groups were derived from different areas; the western have the from the Noatek-Robuk River regions, and the eastern Numamium from reint Barrow. (2) Hall's 1967 survey lends considerable support to the proposition that in the Brooks Range and on the Arctic Slope there was an histus of considerable length, perhaps a thousand rears or more, between the early Eskimo cultures which, according to trying, probably belong within the Arctic Small Tool tradition and later prohistoric Eskimo groups (see Erving, and Compbell, Tretic Institute of North America Technical Paper, No. 11). (3) In the western part of the Brooks Range, late prehistoric



sixin) sites occurring south of the Arctic divide commonly contain atoms outlined man's houses. Men's houses are absent north of the divide. In 1968, Hall intends to conduct excavations at the above moted sites on Buriel and Tukutu Lakes.

Mari H. Schlesier (Wichita State University), and three ostistants, resumed excavations in the vicinity of May Lake, 50 di Miles northwest of Anektuvuk Pass (see Schlesler, American Antiquit Vol. . 32, No. 2). Egon Wiegel (Wichita State University) participants as goological advisor. The work was supported by the National Solate Foundation and Wichita State University. Schlosier aimed at abbuilding sulviewel specimens of the flints he had previously collected in the flood plain of a local stream which he refers to as Sodna Criek. the broining associated radiocarbon samples. Artifacts and frame That meterials were excavated from old stream terraces along the work. Polica samples were also obtained. Schlesier reports what the whome specimens consist of flakes and flake tools which he be some were removed from pebblo, discoidal, and Levallois cores. He want to Wir stone assemblage to the Mousterian tradition and relates them to hold the Siberian Upper Paleolithic, and to the British Mount in, I tokhurak River, and Kograk complexes of the American far real is to a Wannell, Anthropologica, N.S., Vol. 1; and MacNeich, Arthreptlagical Dange of the University of Alaska, Vol. 4. No. 2).

Herbert L. Aloxandor, Jr. (Brya Mawr), with a field crow of the Atigun Valley (see Current Research, Juliant Lagricula, 1991). Richard Stuckenrath (University Marcon Clair Lagrante. With S. Hall, Jr., (Ohio State University Lagrante).



National Science Foundation, and the University Museum. Alexander's purpose was to excavate stratified sites discovered in the Atlgun Valley in 1966 and to reconnoiter river valleys lying to the east and west.

Alexander reports that his surveys of 1966 and 1967 have resulted in the discovery of approximately 50 recent Eskimo carps, and, in addition, sites related to the Dembigh Flint Culture (see Gidding s, Tao Archeology of Cape Dembigh), and to Schlesier's Sedna Creek complex (see above). In 1967 his crew also discovered one site that is affiliated with the tradition represented by Tuktu-Pelisades II (see Campbell, Anthropological Papers of the University of Alaska, Vol. 9, No. 2; and Giddings, Ancient Men of the Archiela

A large stratified site, which is one quarter of a mile wide and extends for three quarters of a mile along the Atigum River, was intensively excavated. It was found to contain at least four periods of occupation, the earliest of which is related to and probably semewhat older than Birnirk (see Ford, Eskimo Prehistory in the Vicinity of Point Barrow, Alaska). Organic materials in the reversal levels were exceptionally well preserved, as were verious other features. For example, the crew identified ancimation areas that apparently represented anther work shops. The leage, total collection is now being analyzed, and a number of redicearbon samples are being dated.

MANDA. Which Territory. William N. Irving, National Mascur of the Manda, supported by that institution, returned to the vicinity



of Old Crow (see Current Research, American Antiquity, Vol. 32, 16, 14).

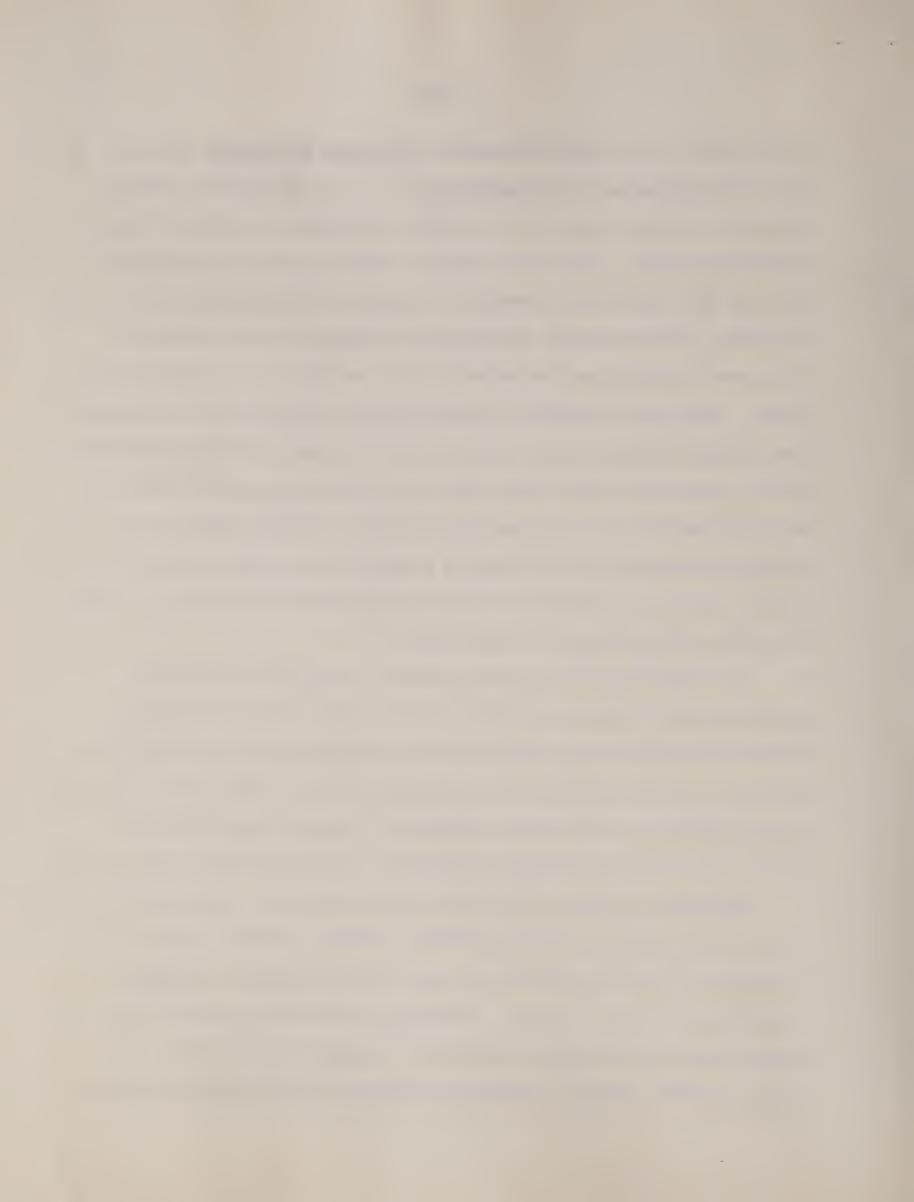
He was accompanied by two assistants. C. R. Harington (National Massum of Canada) and T. D. Hamilton (University of Alaska) were field associates. This was Irving's third season in the region.

Most of the summer was devoted to working on problems of Pleistone cultural and biological stratigraphy, apropos of the seemingly very early artifacts discovered in the area by C. R. Harington in 1966. Additional studies of the more than 30 regional localities containing extinct fauna, indicate that ancient artifacts and non-burnen benes have been sorted from old alluvium and lake sediments and redeposited in much younger alluvium. Irving states that a further knowledge of Pleistocene occupations in the region will depend as much on geomorphic and stratigraphic studies as on conventional archaeological techniques.

In addition to the above studies, Irving reconnoitered approximately 600 miles of the Old Crow and Porcupine Rivers.

Twelve proviously unreported Athapascan sites were discovered a descretal hundred pounds of fairly recent fessil bones were reconstruct from exposures of old lake sediments. Irving reports that no evidence of pre-Athapascan occupations was found during the survey.

Richard E. Morian (University of Wisconsin), a member of Irvio is party, excavated in the large Vunta Kutchin, Klo-Kut site on the Percuping River near Old Crow (see Current Research, American Milquity, Vol. 32, No. 4). Artifacts recovered include stone counts similar to those of the Kavik complex of Anaktuvuk Page of Campbell, Arctic Institute of North America Technical Page



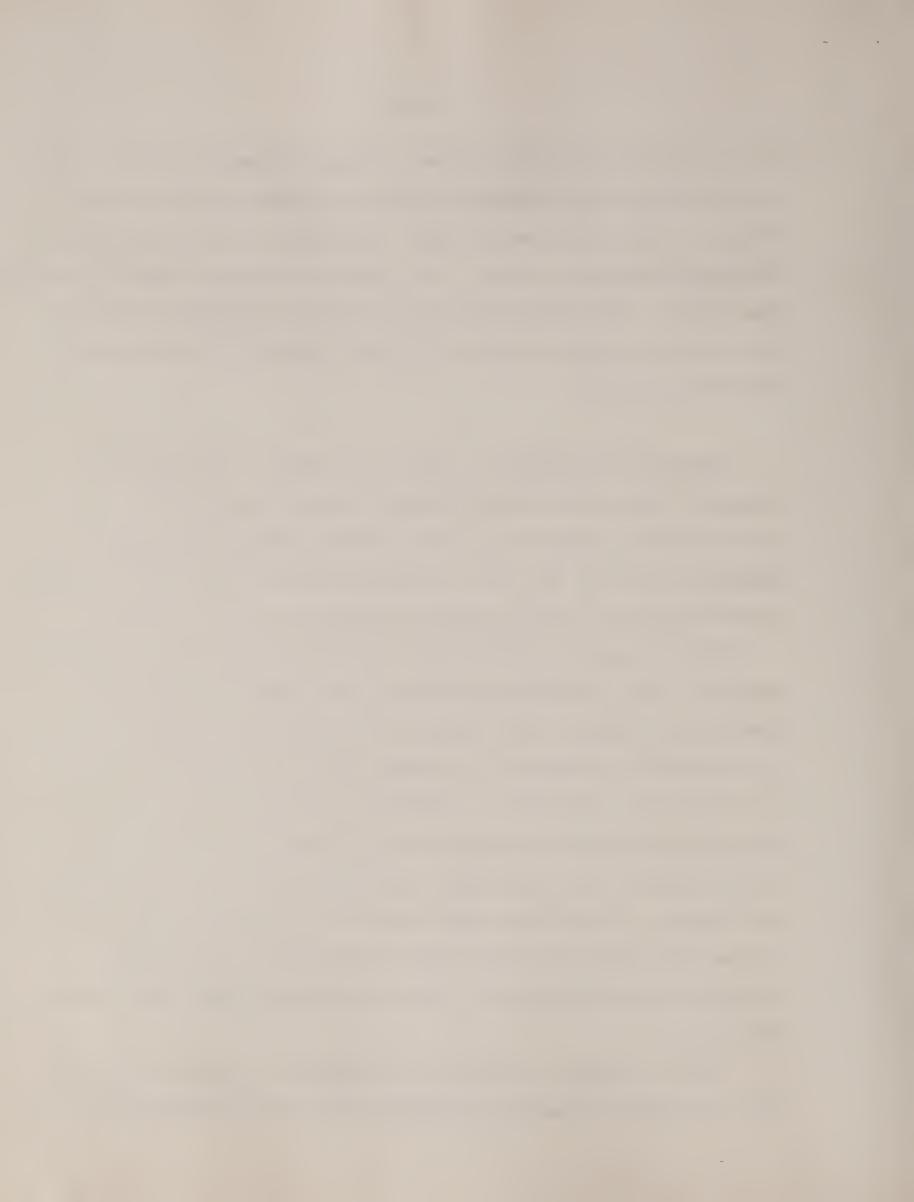
No. 11), bifacially flaked knives, a single stone end-scraper laving a graver spur, bone implements which are probably leister center brongs, a bone barbed point, small fish effigies or lures, and an ornamented metapodial beamer. No traces of houses or other structures were found. Radiocarbon dates imply that the lowermost level of the site has an age of about A.D. 300. Morlan will continue work at Klo-Kut in 1968.

District of Mackenzie. James F. V. Millar (University of Calgary), and a crew of 20, continued surveys and excavations in the area about Fisherman Lake (see Current Research, American Antiquity, Vol. 32, No. 4). He was supported by the Arctic Institute of North America, and the National Research Council of Canade.

Millar's major objective was to further define the regional sequence. Five stratified, and two single component sites wire excavated. Together they contained the remains of between 16 and 20 distinctive occupations, extending from late Athapascan times to 10,000 B.C., or earlier. Radiocarbon dates place some of the plane complexes in the sequence at about 7000 B.C. Still older levels have not yet been dated, but Millar has fairly established that several of the sites were occupied at a time then the front of the Laurentide Ice Sheet stood less than 20 miles distant.

Athifacts from the lowermost levels consist of flakes, and chappendike tools.

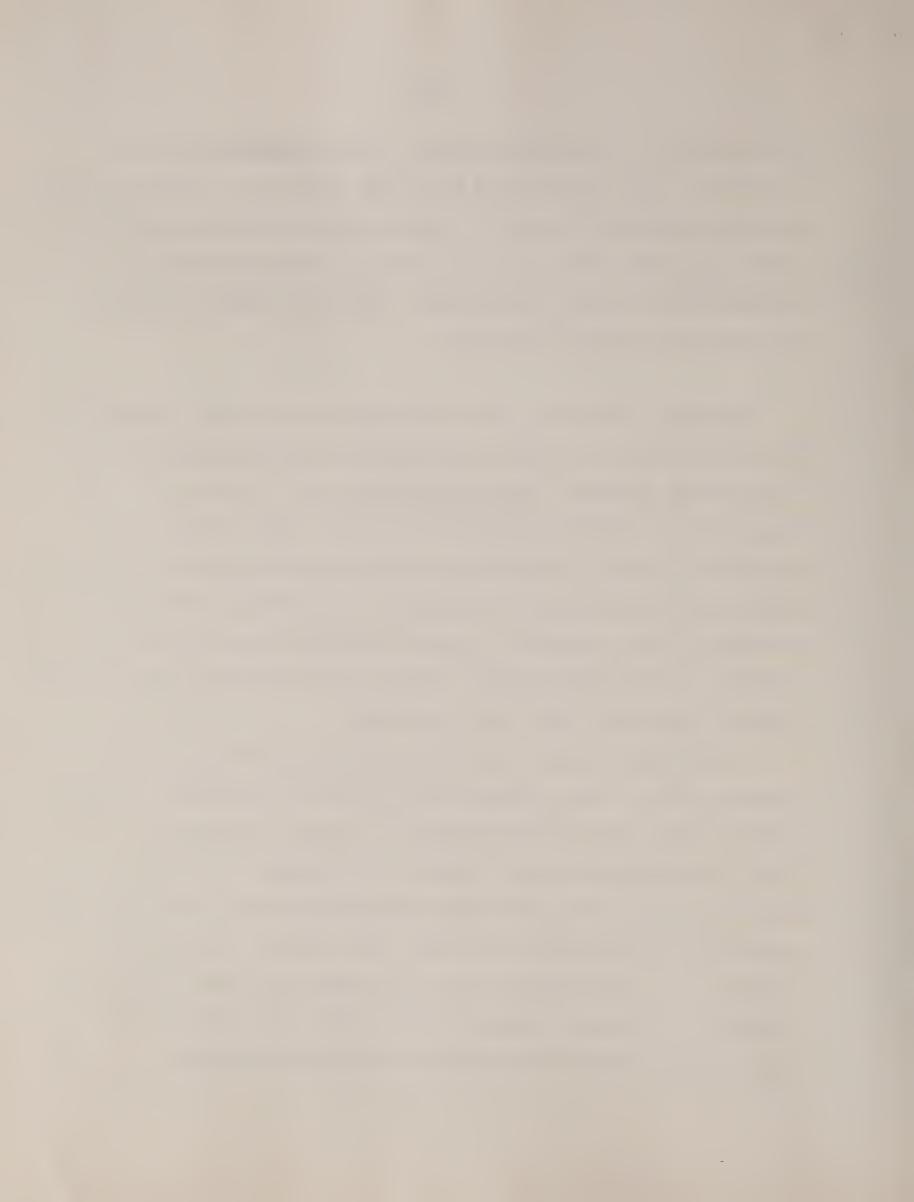
Bryan C. Gordon (University of Calgary), a member of Fillian of the confluence of



assistant. The site dates to A.D. 1850 or earlier. Gordon belley. that the locality represents an early trade rendevous site of the Slave and Dogrib Athapascans upon which, following contact, a trading fort was later constructed. Excavated features included log cabins and stone fireplaces.

Manitoba. Ronald J. Nash (University of Alberta), accompanied by two assistants, surveyed and excavated in northermost Manitoba (see Current Research, American Antiquity, Vol. 31, No. 6). The University of Manitoba supported the work. Nash's primary aim was that of further illuminating the known culture history of a large area encompassing Rock, Egenolf, and Shethanei Lakes, and the region about Churchill. Specific objectives were the further defining of Chipewyan material culture, and the finding of additional culture of the Arctic Smell Tool tradition.

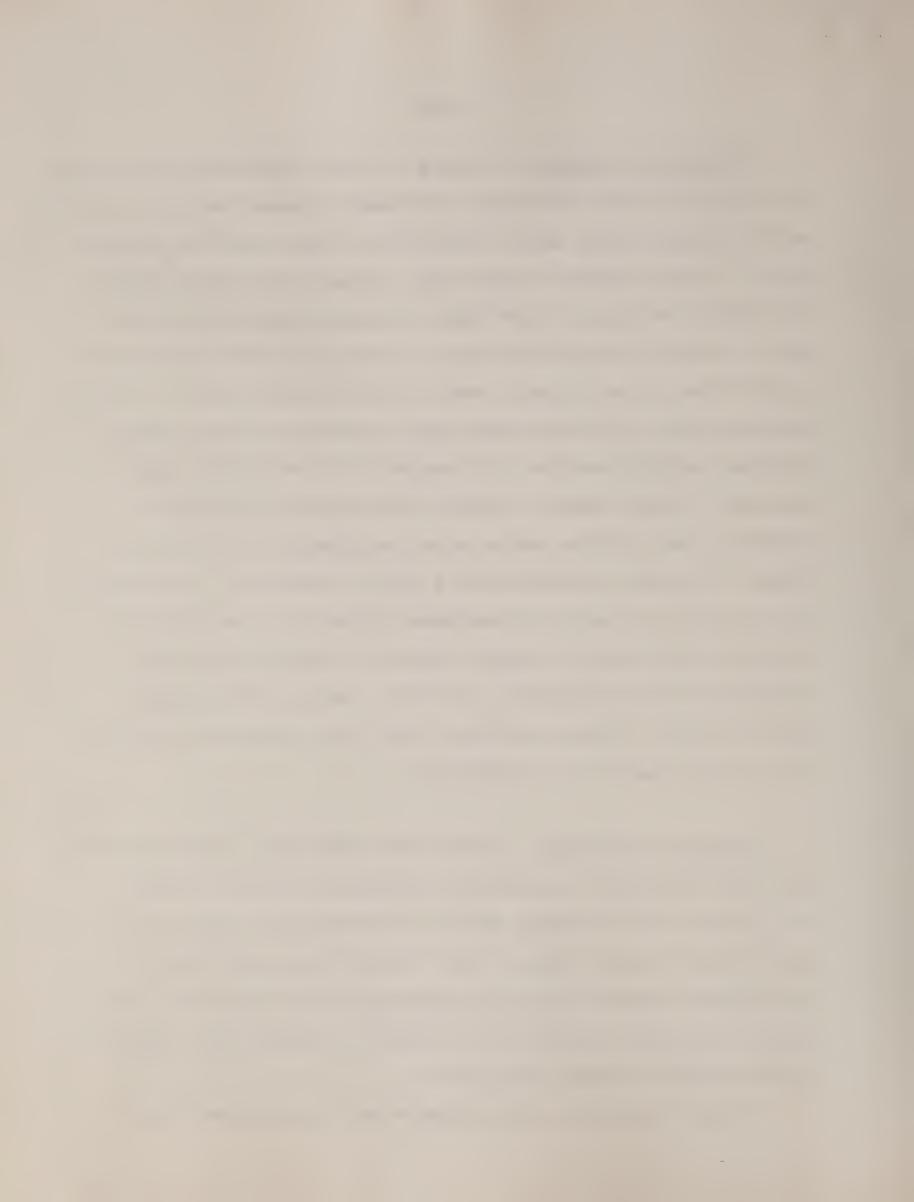
A collection from a late Chipewyan site on Shethanci Lake contains large, stone, stemmed side-notched and triangular points a stone side blade, and stone knives, scrapers and choppers. A notly discovered pre-Dorset locality at Churchill represents will site, where very large stone chopping-scraping tools were found to the state of a site tested at Rock Lake which contained, among the authors, implements relating to the Arctic Small Tool tradition.



District of Keewatin. Charles F. Merbs (University of Chicago), accompanied by three assistants, surveyed and excavated in a large area including Rankin Inlet, Chesterfield Inlet, and Roes Wolcome Sound. A large number of tent rings, winter house ruins, caches, and burials relating to both Thule and more recent Eskimo groups were discovered during the surveys. Work was concentrated at the large Thule site of Silumiut north of Chesterfield Inlet. Silumiut contained about 24 winter house ruins, hundreds of other stone Peatures, and 150 burials. One hundred and four burials were excavated. Merbs reports that with the exception of a burial conseining two children and a burial containing a woman and an infant, all graves exemined hold a single individual. He further obates that only one of the recovered skoletons is recent; the remaining 105 appear to predate European contact in the area. Referring to the advisability of future studies in the region, Merbs says that several excellent Thule sites, containing at least 150 burials, remain to be excavated.

District of Franklin. Albert Dekin (Michigan State University), with three assistents, conducted excevations on Baffin Island at the Crystal II and Shaymarc sites at Frobisher Bay, and at the Merrison and Closure sites on Cape Tanfield near Lake Harbour (are Durrent Research, American Antiquity, Vol. 29, No. 4). The project, under the supervision of Moreau S. Maxwell, was supported by the National Science Foundation.

A total of nearly 1,200 artifacts have now been recovered



of the Arctic Small Tool tradition and presumably dates to about 2000 B.C.

in 1948 (see Report of the National Museum of Capada for 1948-1949 Eull. 118). Collins found that it contained a Thule culture layer lying above a Dorsot level, the first instance in which such stratigraphic associations had been discovered. The results of the 1967 excavation suggest that a third pre-Dorset component is present in the Crystal II site. Further, the most recent excavations demonstrate beyond reasonable doubt that true burins in significant numbers persisted in local Dorset culture until about A.D. 500.

Of which lived in small, isolated household clusters. The site, which lates to approximately 2500 B.C., has yielded a total of 1,500 stone artifacts, many of which relate rather directly to the Denbigh Flint culture. Maxwell remarks that excavations at the Closure site imply that very early Arctic Small Tool inventories, which spread eastward into the area, contained polished burin-like tools and slate knives and addres.

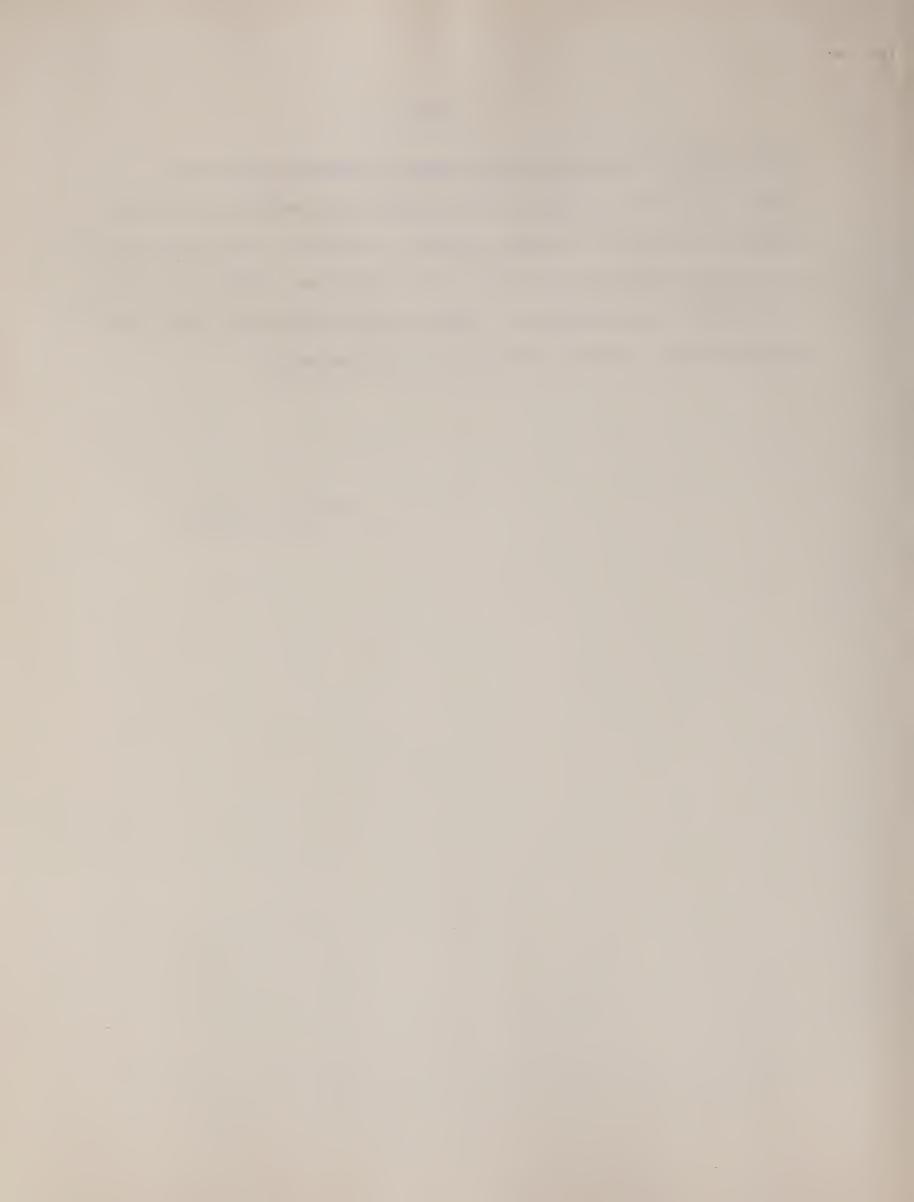
Expandions of a large multi-family dwelling at the Morrison site produced further data relative to daily activities of the Moreon peoples as they occurred at approximately 600 B.G.

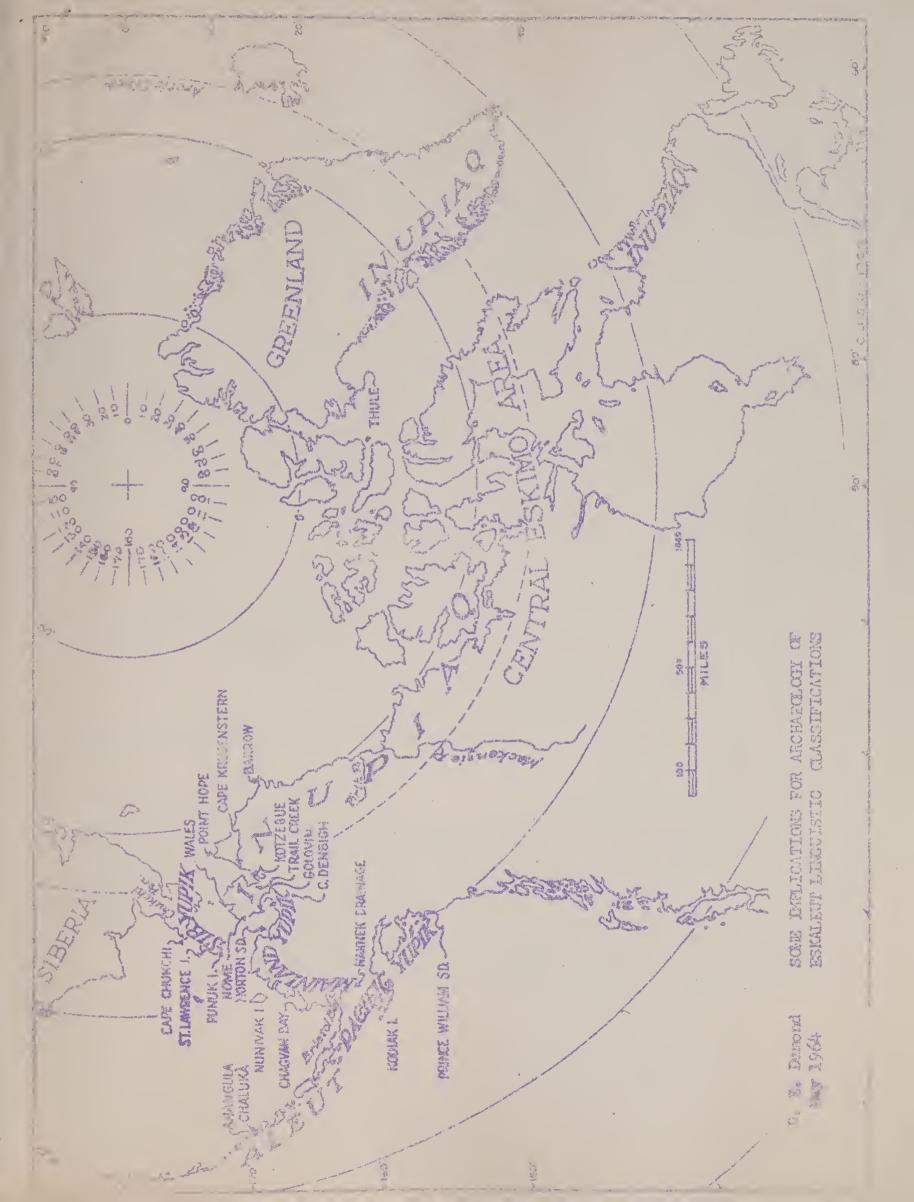
CRITERAID. <u>Nest Greenland</u>. A party of five from the Denish Mydered. It seems excarated at the Nugarasuk site in the Upernavik District.

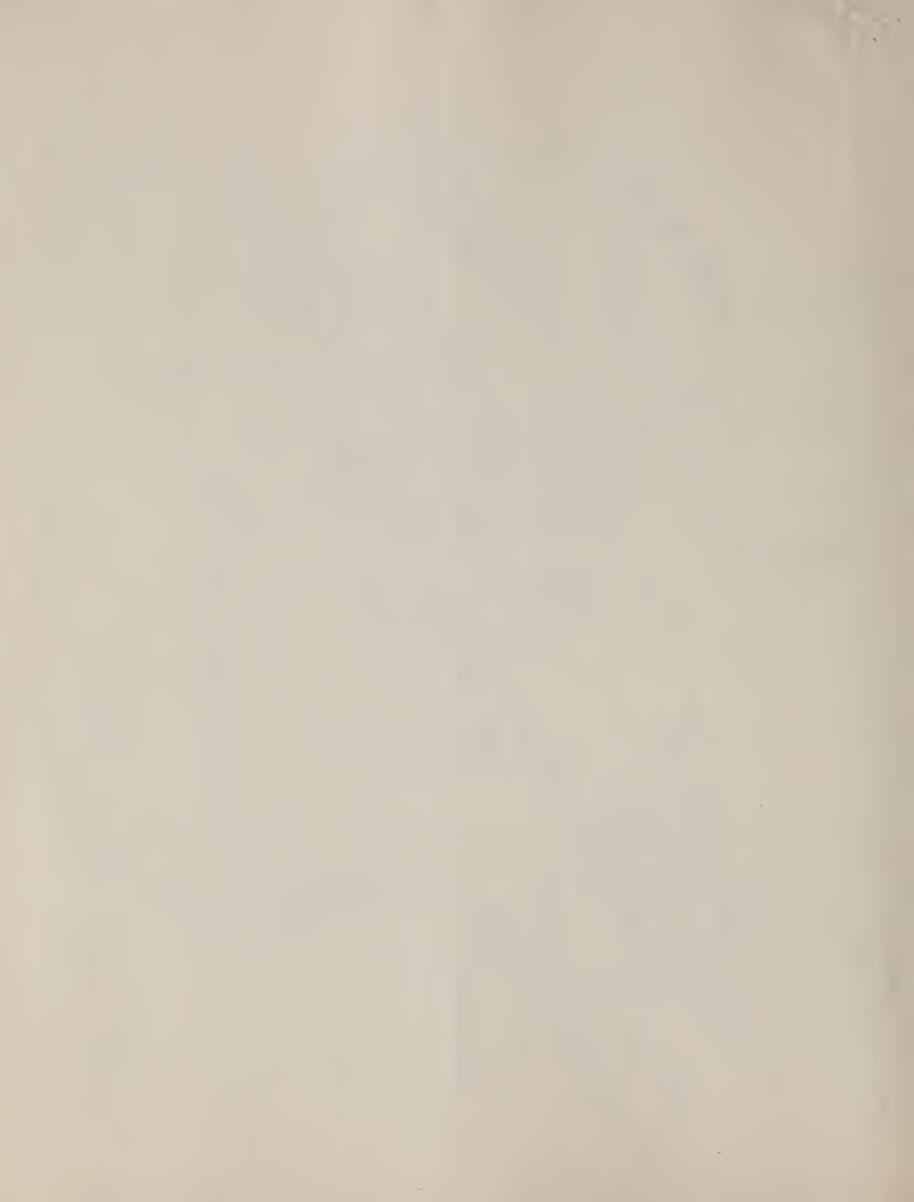


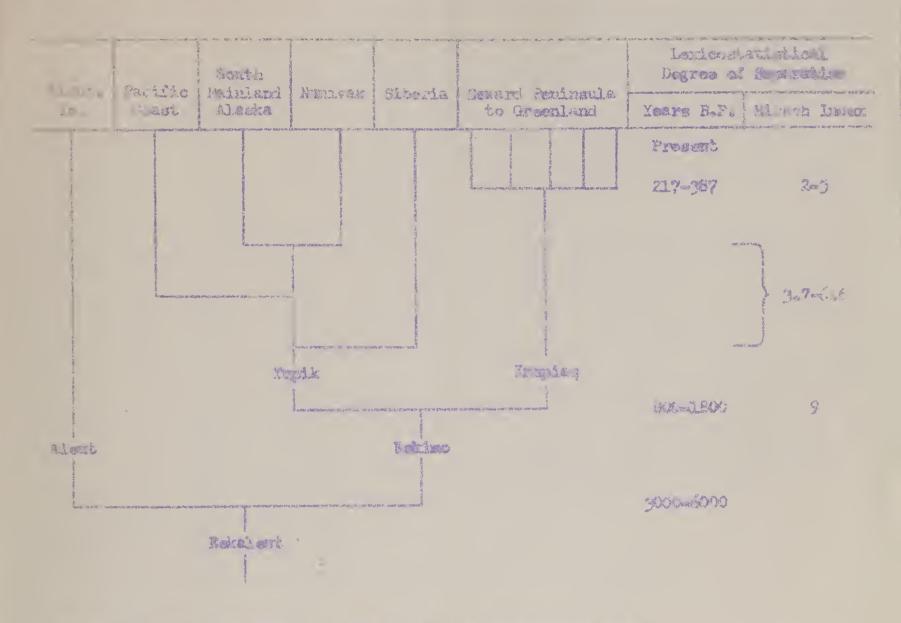
Helge Larsen (Danish National Museum) supervised the work. The major objective was that of collecting data relative to culture changes induced by European contact in the 17th and 18th centuries. Six house ruins and 50 burials, spanning from about A.D. 1650 to A.D. 1850, were excavated. Larsen reports that more than 6,000 evoifacts and numerous skeletons were recovered.

John M. Gamebell









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ARCHAEOLOGY IN CANADA

There are several comments concerning developments in the planning and preparation of the volume tentatively titled "Archaeology in Canada". Since there are a large number of us participating in it and since I am obviously a rather junior man in the crowd, suggestions on any aspect of the publication from any of its participants would be most welcomed. For example, does anybody have a strong idea on a title for the proposed publication?

I have approached the Geological Survey of Canada and it seems certain that a group of its Pleistocene geologists will prepare a chapter on their subject especially designed for people interested in reading archaeology.

Three or four people have asked me to lay down a statement of style, content, purpose, coverage, etc. The book is conceived to serve as a comprehensive base line on Canadian prehistory suitable for the university student and the educated or interested adult. It should also be of value to the profession. It is not meant to be a popular account on the level of the "Reader's Digest" or "Macleans" or "The Beaver". I must ask that jargon and minutiae be avoided. The grammar and terminology must be precise, clear and controlled. I would hope in the case of most of us that we achieve at least some degree of literary sophistication. Most of us rarely or never exhibit this quality, in part because we never try.

Some few of our number exhibit it with enviable consistency. I would ask that all participants bear in mind, and work to achieve, not only archaeological precision and coverage, BUT ALSO style, vividness, cohesion, colour, and humour. If anyone wishes an example of an adroit extremity in professional writing I would ask that he read or reread Edward Deevey's article in the "American Scientist" (Vol. 43, No. 3, September 1960). Find the word, the phrase, the apt analogy.

In a general sense the Cole volume will give some idea, but I beg you to present a more cohesive account of your area (and I will certainly expect a better narrative style than appears in much of that volume).

Each chapter should thread in some historical perspective on the archaeology (as opposed to the prehistory) of its area. People such as Smith,

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Nickerson, Boyle, Wintemberg, and Jemess should receive the bouquets they deserve with some attention as to who, when, where, and why. I would hope that the reader will learn the archaeological problems answered and unanswered in each region; that is to say, the paper should be much more than a summary of the archaeological knowledge of an area. Each paper must include a map of its area and I would hope that all participants will provide specimen illustrations and photographs of important excavations. Site illustrations will be selected from among those submitted. Each paper should say something about ecological zones, geography, and climate, and each archaeological sequence should be tied to the area's ethnography. Please provide extensive, correct bibliographies. The matter of consistent format in illustration remains open. For example, would we use line drawings or photographs and will we send specimens to Ottawa for uniform photography or drawing? I will try to hold foremost in my mind and yours four words pertaining to the content of each paper: problems, interpretations, reconstructions, and syntheses.

Question: do we begin our archaeological summaries in the ethnographic present and work back or vice versa? So far I have one for and one against.

Personally, I am inclined to begin with the oldest and then to move up the calendrical ladder.

completed final manuscript accompanied by maps, photographs, bibliography, etc. suitable for independent publication. Separate publications of these papers is planned. There will, of course, be overlaps in this from province to province. The manuscripts will be edited with such matters in mind so that different authors will receive requests to delete this, or enlarge that, or reduce such and such. I have no intention of eliminating points where two authors are in disagreement. Parenthetically, I hope each author will record those significant published views that oppose his own. Subsequently each author will receive his edited manuscript for preparation of second draft in the next fiscal year, a draft which will be published as a chapter in the final volume. Each will also receive a copy of all

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the other manuscripts allowing him to cross-reference or to argue with his neighbours. We might even change each other's thinking. At the same time, in the second year, Lowther, Oschinsky and Anderson will receive copies of the whole shot as background for the papers they are to write.

I will not detail matters of Preface, Introduction, and Dedication except to note that Drl Jenness has allowed the book to be dedicated to him. In fact, he is very pleased. The attached outlines authors proposed and suggests maximum number of printed pages, including all illustrations, for each author. I would hope that we all came out near our maximum pagination. Suggestions on changes of page numbers will be entirely welcome.

Since MacNeish has a rather full bowl of corn and since Bill Mayer-Cakes has just amounced his welcomed return to Canada, perhaps he will be persuaded to write a chapter on his chosen province, Mamitoba. Last, because of the very marked increase in his duties as Assistant Director, Clifford Wilson has decided to withdraw from the editorial side which is at least as big a blow to me as to each of you. With that news and this tasteless ramble, I would not be surprised if several more followed his example. Obsiously I have woeful shortcomings as editor and co-ordinator of this joint project. And, my role jeopordizes any good feelings you may hold for me. Your work has my respect and admiration but lacking tact, I seldem manage the deft or delicate touch. I beg your best efforts in the demands of the project and your patience in Taylor's deficiencies. The ham-handed guidance will surely be incorrect and unfair at times. When it seems so, don't spare my feelings for I'll not be sparing yours.

Rie In

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Chapter	Area	Author	Maximum Pages
T	British Columbia	Borden	50
II	Northwestern Canada	MacNeish	50
III	Canadian Tundra	Taylor	40
IA	Alberta	Forbis	40
v	Saskatchewan	Kehoe	40
VI	Manitoba	MacNeish (Mayer-Cakes)	40
VII	Ontario	Wright	50
VIII	Quebac	Wright and Taylor	40
IX	Muritime Provinces	Fearson and Taylor	30
X	Historic Sites in Canada	Kida	20
II	Physical Anthropology	Oschinsky and Anderson	50
XII	Theory and Method	Dowther	25
IIIX	Pleistocene History		20

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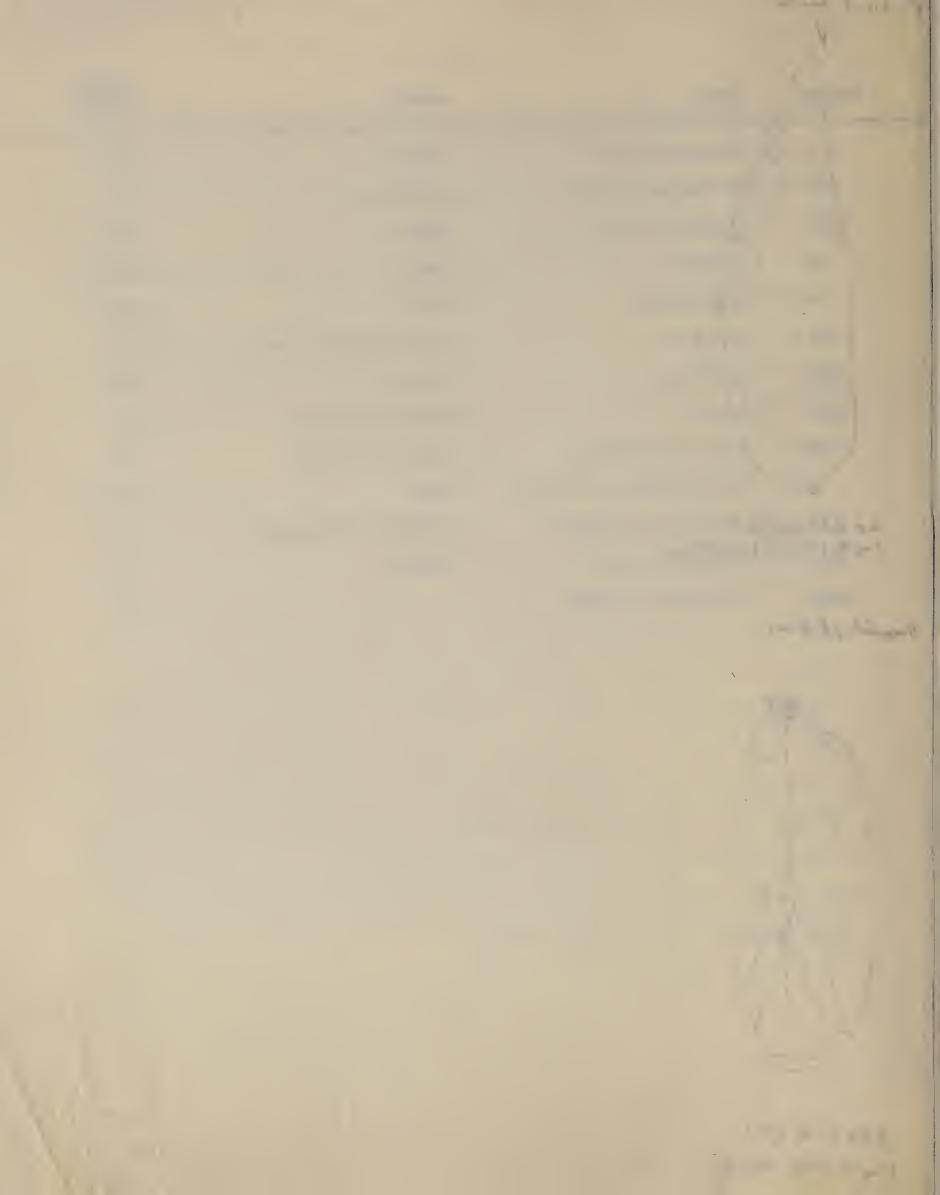
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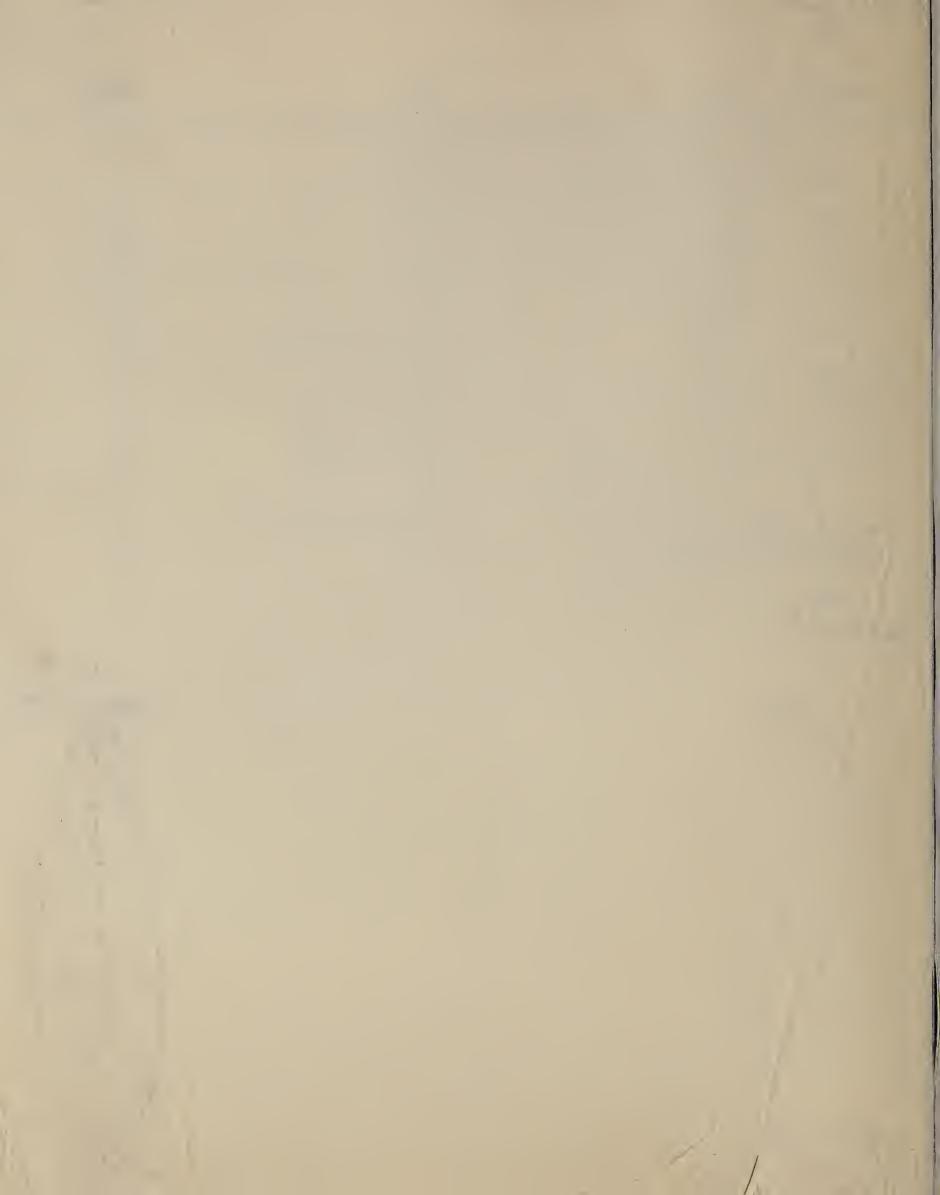
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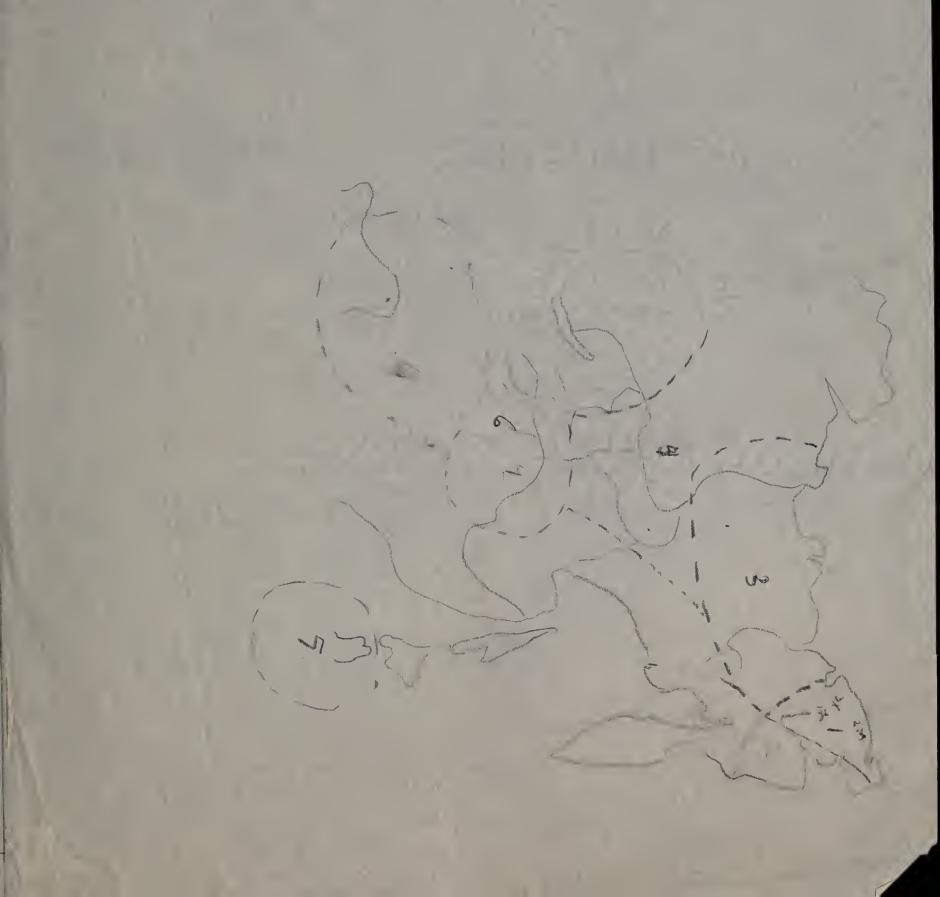


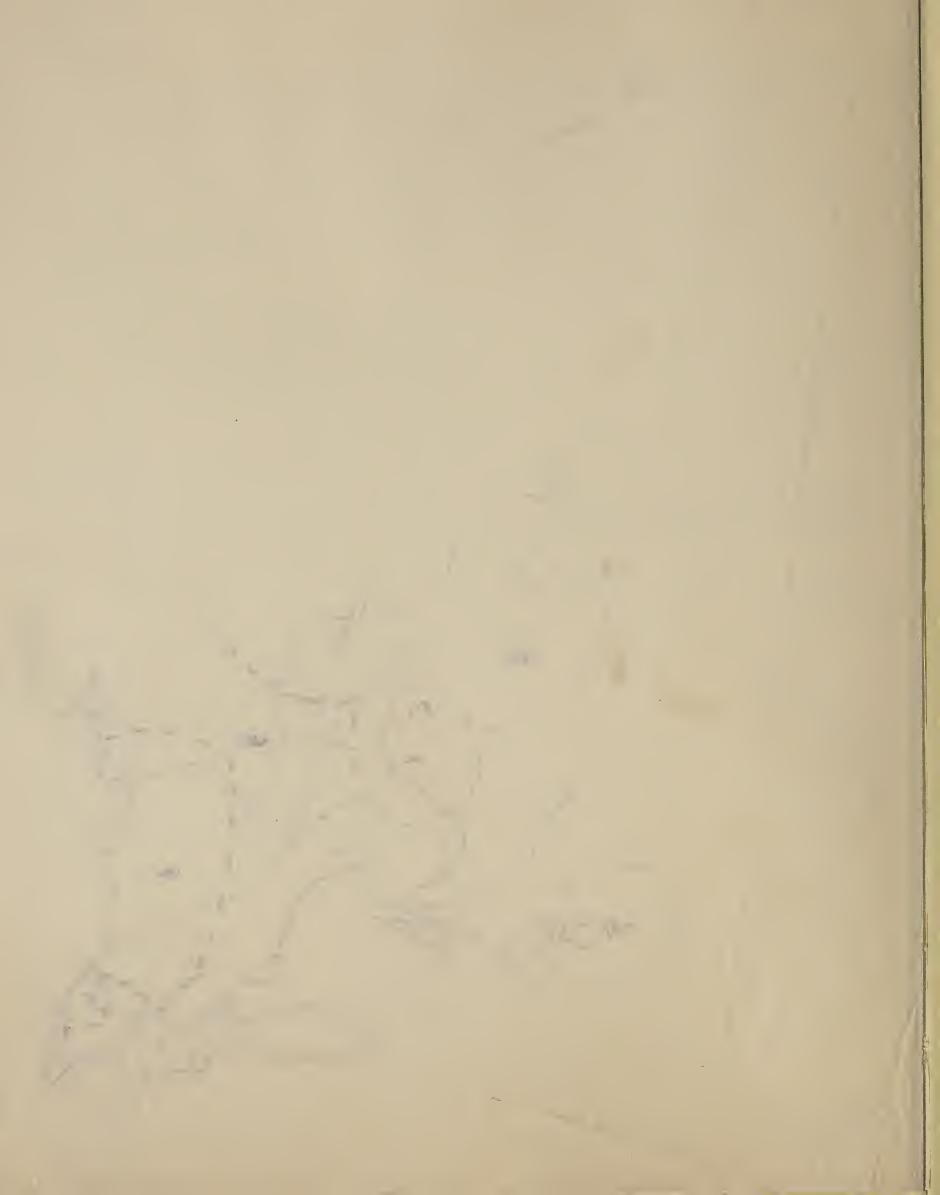
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